

# ecology and environment, inc.

160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415/777-2811

International Specialists in the Environment

### PRELIMINARY ASSESSMENT

DATE:

October 30, 1987

PREPARED BY: Melanie Anderson and Beatrice Thys

Ecology and Environment, Inc.

SITE:

Hewlett - Packard Microwave Semiconductor

350/370 W. Trimble, San Jose, CA 95131

Santa Clara County

TDD No:

F9-8706-056

CAD No:

CAT000611400

### Site Description:

The Hewlett-Packard Microwave Semiconductor facility (HP) is a 175-acre site located at 350/370 West Trimble Road, San Jose, California, southeast of the intersection of Montague Expressway and Lafayette Street (see Figure 1, Site Location Map). The facility manufactures, assembles, and tests diodes, transistors, and integrated products. The entire site is fenced, and guarded 24 hours per day (1,2). Operational areas on this site are an integrated circuit facility, assembly and test areas, research and development facilities, high-reliability testing area, a small machine shop, and maintenance facilities (3). HP constructed the facility on former agricultural land in 1979 (4).

The manufacturing operations are centered in Buildings 90 and 91. Two storage sheds (SS90 and SS91) and a Common Service Building are located to the west of Buildings 90 and 91 (see Figure 2, Facility Map). Chemical wastes (e.g. potassium cyanide) are stored in 55-gallon drums in the north end of SS91. An acid neutralization system and a fluoride treatment system are located in the Common Service Building. sets of tanks for collecting and holding influents to each treatment system are located in the basements of Buildings 90 and 91 and in an underground vault adjacent to the northwest corner of Building 91. Collection tanks for waste stripper are also located in the basement of each building. Several underground storage tanks are or have been on-site (see Figure 2). Nonvaulted tanks T1 and T4 contained gasoline and waste solvents, respectively. T4 was removed in 1984 and T1 in 1986. Vaulted tanks T2 and T3 each contain 12,000 gallons of fuel oil. Waste

j/ma/hp/pa

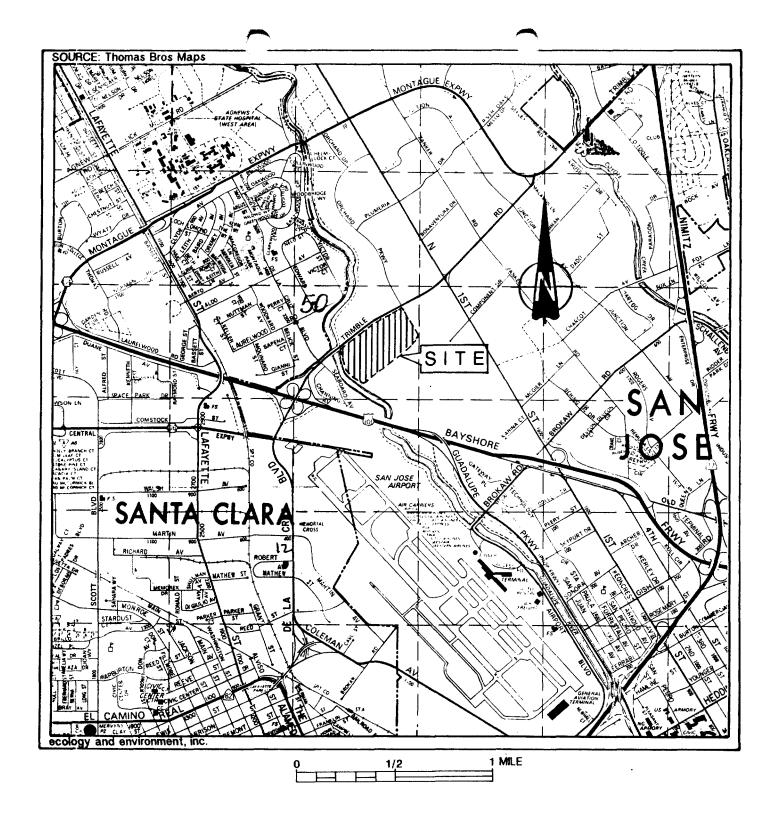
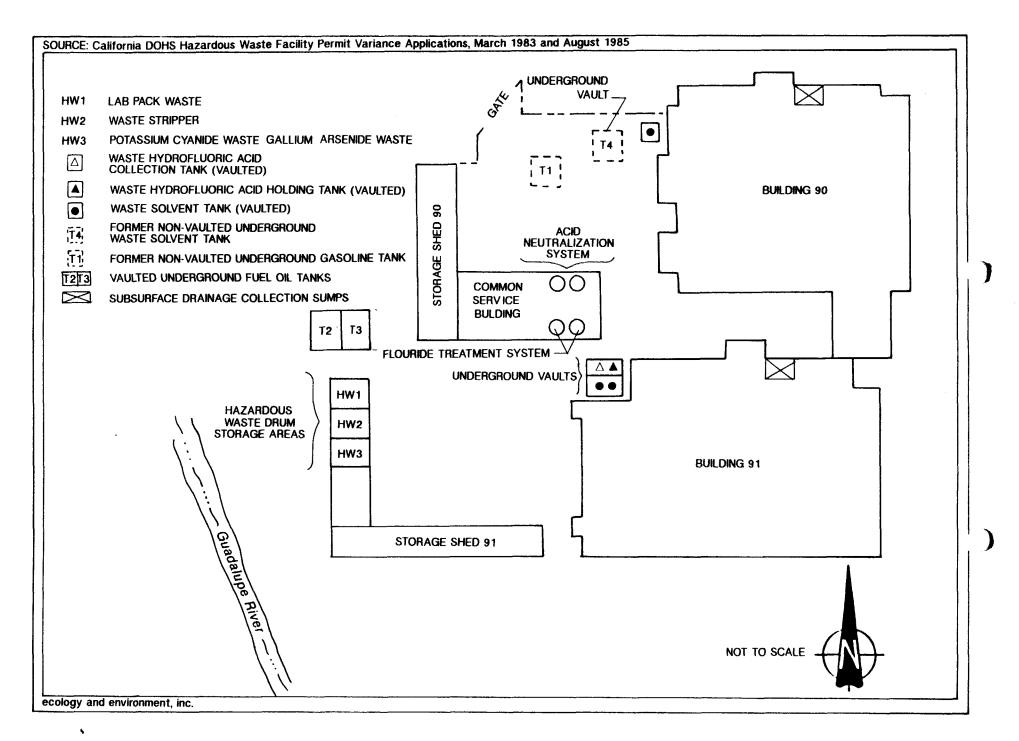


FIGURE 1 SITE LOCATION MAP

HEWLETT-PACKARD MICROWAVE SEMICONDUCTOR 350/370 WEST TRIMBLE ROAD SAN JOSE, CA 95131



HEWLETT PACKARD
MICROWAVE SEMICONDUCTOR DIVISION

solvents are stored in two 1000-gallon vaulted underground tanks adjacent to Building 91 and in a 750-gallon vaulted underground tank adjacent to Building 90. In addition, two sumps collect subsurface drainage from beneath the Buildings and discharge to Guadalupe River via storm drains (2,4,5).

### Apparent Problem:

In 1982 the San Francisco Bay Regional Water Quality Control Board (RWQCB) instituted a leak detection program for all sites in the Santa Clara Valley with underground tanks (6). The information submitted by HP on the facility questionnaire indicated the presence of four underground storage tanks on-site. All had been installed in 1978 (7,8). Two of those listed were T2 and T3, the 12,000-gallon vaulted fiberglass tanks used to store #2 fuel oil. Also listed were T1, the 2000-gallon non-vaulted fiberglass storage tank (removed in 1986) which held unleaded gasoline, and T4, the 2000-gallon non-vaulted steel tank (removed in 1984) which held a mixture of waste solvents. According to information provided by HP on the questionnaire, the waste solvent tank contained the following (7,8):

Isopropyl alcohol	15-25%
1,1,1-Trichloroethane (TCA)	15-25%
Trichloroethylene (TCE)	5-10%
Acetone	20-30%
Methyl alcohol	5-15%
Butyl acetate	5-15%
Methylene chloride	5-10%
Xylene	0-5%
oil	0-5%

Dipsticks were reportedly used periodically to check the levels of all tanks; no leaks were detected using this procedure (7).

RWQCB's protocol under its leak detection program was to require subsurface investigations at all facilities which reported solvent storage in underground tanks. However HP notified RWQCB that it was planning to install a 750-gallon vaulted storage system, and RWQCB subsequently allowed HP to delay the investigation until the removal of the 2000-gallon waste solvent tank, anticipated by HP to be in July 1983 (9,10).

The 2,000 gallon waste solvent tank was removed in 1984. Soon thereafter Applied Earth consultants (AE) conducted a subsurface investigation to determine whether soil in the excavated area was contaminated by the tank's contents. Two borings were drilled to a depth of two feet below the interface of the sand fill beneath the tank and the underlying native soil, a depth of approximately 12 feet below ground surface (11). Analytical Technologies, Inc. (AT) analyzed the samples using EPA Methods 624 and 625 for volatile and extractable organic compounds. The results were as follows (12):

Table 1. Results of Soil Sample Analyses-1984

Compound	Concentra Soil () B-1	ation in opm) B-2	Limit of Detection (ppm)
Methylene chloride	0.6	0.8	0.1
Trichloroethene (TCE)	4.1	none detected	0.1
Di-N-Butyl phthalate	1.9	2.0	.25

Source: Applied Earth Consultants, 4/84. (No other compounds analyzed for were detected).

At the same time, AE collected water samples from the drainage sumps below Buildings 90 and 91. Liquid from these two sumps flows through a single pipe to a storm drain believed to discharge into the adjacent Guadalupe River (13). These samples were analyzed for TCE, Trichloroethane(TCA), Dichloromethane, N-Butyl Acetate, Xylenes and 2-Propanol. Only TCA, at a concentration on 11.6 ppb, was detected in the sample from the Building 90 sump. The detection limit was 10 ppb (14). The recommended DOHS action level for TCA in drinking water is 200 ppb (15).

Three additional water samples were obtained during resampling by HP in June 1984: one from each of the drainage sumps below Buildings 90 and 91, and one from the storm drain containing water from both sumps (16). Samples were analyzed by the HP Analytical Laboratories (HP Labs) for TCE, TCA, dichloromethane and 1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF). The limit of detection for TCA, dichloromethane, and Freon TF was 10 ppb, and for TCE, 5 ppb. HP Labs detected no contaminants in any of the samples (13,16). However, the RWQCB continued to express concern regarding the possible contamination of Guadalupe River by discharge water and considered issuing an NPDES permit to HP. It therefore requested HP to resample the sump water again and send the samples to an independent laboratory for analysis using EPA method 601 for purgeable halocarbons. AT performed the analyses and reported no detectable contamination (Detection limits were the same as those in the previous analyses by HP Labs)(1,14). Therefore, based on absence of detectable contamination in the repeat samples, RWQCB determined that HP did not require an NPDES discharge permit (1).

On June 5, 1986, the 2,000-gallon fiberglass storage tank was emptied of gasoline and cleaned and removed by International Technology Corporation (IT). The tank contents and rinsate were hauled to it's Vine Hill Class I facility for disposal (17,18). The San Jose Fire Department inspected the tank during removal, and reported that the tank showed no evidence of leakage, and the underlying soil had no staining or odor (15). A soil sample was taken from two feet below the level of the tank bottom, and analysis by IT showed no hydrocarbon contamination (19).

A San Jose industrial waste inspector confirmed that HP has had no discharge violations and currently operates under a renewed wastewater discharge permit (10).

### HRS Factors:

### Observed Release:

Sampling conducted by AE indicated low levels of sump water contamination by TCA (11.6 ppb) and soil contamination by methylene chloride, TCE, and Di-N-Butyl Phthalate, all at levels below 5 ppm (see Apparent Problem Section (12,14). The presence of contaminants in soil represents the potential for contaminant migration to underlying groundwater. Groundwater was not encountered during subsurface investigations on-site; however the potential of an observed release to groundwater exists.

### Direct Contact/Fire and Explosion:

The HP facility is fenced and patrolled 24 hours a day by security guards (1,2). DOHS facility inspections have discovered only minor violations such as the absence of National Fire Protection Association placards on some hazardous waste holding tanks during an October 1982 inspection (20). These violations were remedied (21). Hazardous waste drum storage areas are locked, with overflow catchment and drainage systems (2). No information was found in the facility files of the San Jose Fire Department, RWQCB, or DOHS which would indicate a threat to the public due to direct contact/fire and explosion.

### Waste Type/Quantity:

In a letter accompanying its 1983 request for a Hazardous Waste Facility Permit variance, HP described the waste processing and storage systems as follows (10):

- A) An elementary acid/base neutralization system neutralizes non-regulated metal-free acid and base process wastes from Buildings 90 and 91. The common service building holds the neutralization system, which operates in two stages. The material in the transfer tanks (in the basements of the two buildings) is pumped into the neutralization tanks, where it is treated with sodium hydroxide or sulfuric acid. The two neutralization tanks hold 5,200 gallons and are fiberglass-reinforced plastic. The pH of the material entering the neutralization varies from 2.5 to 11, and exiting material ranges from pH 6 to 9, averaging around 8. The neutralized material is discharged to the San Jose/Santa Clara Water Pollution Control Plant (WPC) (22).
- B) A fluoride waste treatment system pretreats waste which is then forwarded to the acid/base neutralization system. Prior to 1983, fluoride waste from Building 90 labs flowed down drains to a collection tank and then into four fiberglass holding tanks in the basement of Building 90. Contents were hauled away every 20-25 days by IT for neutralization at an IT Class I disposal site (22,23). Since late 1983, concurrent with the completion of Building 91, the fluoride waste

treatment system has been in operation. Hydrofluoric acid and other acid wastes containing trace materials are still collected as described above in Building 90. Flouride wastes from Building 91 flow into an 800-gallon collection tank and a 5600-gallon holding tank in an underground vault in the northwest end of Building 91.

From both buildings, waste is pumped to the common service building, in which it is treated with a hydrated lime and CaCl<sub>2</sub> mixture at a 2:1 ratio. The resulting CaF<sub>2</sub> precipitates out as sludge, which is pumped to two sludge holding tanks and hauled away by IT. The high-pH decantate is tested for arsenic and fluoride, then pumped to the first stage of the acid/base neutralization system. Here it is tested along with the other acid/base wastes and finally discharged to WPC. The fluoride treatment process reportedly reduces initial fluoride concentrations of 5,000 to 6,000 ppm to less than 3 ppm in the decantate. Wastewater monitoring is conducted with monthly analysis of a 24-hour composite sampling for heavy metals and other constituents. Semi-annual tests are run for fluoride, phenol, arsenic, and other compounds, and the results forwarded to WPC to comply with discharge permit requirements (23).

Waste potassium cyanide, waste gallium arsenide, waste stripper, and lab packed wastes are stored in the hazardous waste drum storage area in Building SS91 (see Figure 2). Less than 55 gallons a month of potassium cyanide solution (approximately 7-17% Cyanide) is produced. IT Corporation vacuums the waste from drums and transports it to the IT Class I site for cyanide destruction and other treatment as necessary (2.23).

Lab-Pack materials, chemicals which cannot be disposed of in waste drains, are packed with vermiculite and stored in new 55-gallon drums specific to each waste category below. HP categorizes these materials as: corrosive, flammable liquids, poisons, oxidizers, and flammable liquid poisons. The amounts are described as "very low," and are stored in the locked hazardous waste storage area until removal by IT to the Chemical Waste Management Class I disposal site in Coalinga, California, for burial (22,23).

#### Groundwater:

The Santa Clara Valley is a large structural depression, filled with alluvial and lacustrine deposits. There are three groundwater sub-basins in Santa Clara County: The Santa Clara, Coyote, and Llagas. The northernmost, the Santa Clara, consists of a "confined zone" near San Francisco Bay and a "recharge zone" in areas further from the bay. The confined zone is characterized by a thick silty clay layer 100 to 200 feet below the land surface, which separates an upper aquifer serving most of the shallow private wells from the deeper confined aquifer on which most of the public wells rely. The approximate eastern boundary of this confining layer (which does not exist in the recharge zone) is located slightly over three miles east of the HP site (24). (i.e., HP is located in the confined zone) (24).

Municipal drinking water in the area is supplied by the Cities of San Jose and Santa Clara. The San Jose Water Company (SJWC) has approximately 150 active wells. The closest active well, (Breeding #1, 6s/1E-3D10) is located approximately one mile northeast of HP. Breeding #1 well is located in the SJWC Cambrian pressure zone which has 36,199 service connections. Ninety five percent of drinking water supplied to customers in the Cambrian zone is groundwater. The remaining 5% is imported from the South Bay Aqueduct via the Sacramento delta. Santa Clara wells supply 80% of the drinking water needs for a population of approximately 89,500 people; the remainder is from San Francisco's Hetch-Hetchy system (25,26,27). Groundwater was not encountered during on-site subsurface investigations; therefore depth to groundwater is unknown. Regional groundwater flow direction is to the northwest (1).

Net precipitation is 7.3 inches from November to April (28).

### Surface Water:

The Guadalupe River is adjacent to the site, and apparently receives the discharge of sump water from HP. Calabazas Creek and Santo Tomas Aquino Creek are both located within a three-mile radius and downstream of the HP site. The RWQCB has outlined the beneficial uses of these three waterways in the San Francisco Bay Basin Plan to include: navagation; groundwater recharge; contact and non-contact water recreation; wildlife habitat; preservation of rare and endangered species; industrial service supply; and open commercial and sport fishing. None of these surface water bodies are used as drinking water sources (29).

The one-year 24-hour rainfall for the site area is approximately three inches (30).

### Other Factors/Agency Involvment:

In March 1983 HP filed a request with DOHS for a variance from state permit requirements for its acid neutralization system and fluoride treatment system (4). A DOHS inspection was conducted on April 18, 1984, to confirm the site information HP had included in the variance request. It was noted that the two previous violations had be addressed properly and no violations were noted during this inspection (21). On June 22, 1984, DOHS granted the variance which enabled HP to operate the treatment units without a permit (31).

HP applied for another Hazardous Waste Facility Permit variance to allow on-site storage of potassium cyanide solution and a variety of lab-pack materials in small quantities for over 90 days (23) (see Waste Type/Quantity). The rationale behind the request was that the amounts of material specified were too small to meet the minimum requirements for pick-up and destruction or disposal by the contracted waste haulers (23). After discussion of the application with EPA, DOHS denied the application on the basis that the facility generates over 1,000 kg. of hazardous wastes per month and that the storage of that waste beyond 90 days is therefore subject to regulation as a RCRA Treatment, Storage, Disposal

Facility Federal RCRA regulations (5). HP currently transports wastes off-site in less than 90 days and therefore maintains generator status under RCRA (32).

HP was placed on "no action" status by RWQCB, the lead agency for this facility, as of January 25, 1985, because of the low level of contamination detected in soil and sump water samples. This status has not changed; "no action" status indicates that the facility is not required to conduct further site characterization work (1) (31) 32).

HP operates under Industrial Wastewater Discharge Permit # SJ-003A, issued by the San Jose/Santa Clara Water Pollution Control Plant. Compliance with monitoring regulations for this permit includes semi-annual sampling of wastewater by HP, and the forwarding of sampling results to WPC (4) (23).

It is unknown whether the site will qualify for inclusion on the National Priority List because of a lack of data to support a groundwater observed release or route score.

### Conclusions/Recommendations:

HP has been operating as a manufacturing and assembly facility for diodes, transistors, and integrated products on West Trimble Road in San Jose since 1979. Hazardous wastes are generated from a variety of processes, and are either stored for shipment and disposal, or pretreated and discharged to the Santa Clara wastewater treatment facility. Discharge water is tested semi-annually for contaminants in compliance with wastewater permit regulations.

RWQCB included HP in its monitoring program of Santa Clara Valley facilities suspected of being sources of groundwater contamination. As a result of on-site soil and sump water analyses, RWQCB, the lead agency, determined that HP caused insignificant contamination and therefore classified it as a "no action" site; however, subsurface investigations did not include groundwater sampling on-site. It is unknown whether the site will qualify for inclusion on the NPL due to a lack of groundwater data. FIT therefore recommends no further action under CERCLA at this time, and that RWQCB reevaluate the site and require HP to conduct groundwater sampling.

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	FIT Review/Concurrence:  Marka Matta 11/10/87	
	EPA Recommendation for Further Action: No hather school Minor so contamination no evidence of glich with continue to monitor site to source no hather subsuffice Response Termination: No Further Action ; Active	unler CERCLA.  minution. RUDGE should  contamination. Could
4.	Justification:  No Further Action  Active  Justification:  Touch  Active	simpling is premiture.
j/m	na/hp/pa	12/21/

#### REFERENCES

- Assessment of Contamination from Leaks of Hazardous Materials in the Santa Clara Groundwater Basin, 205 j Report - Technical Appendix: Case Summaries, San Francisco Regional Water Quality Control Board (RWQCB), SEEHRL, University of California, Berkeley, and Santa Clara Valley Water District, 7/85.
- 2. Supporting documentation for DOHS Hazardous Waste Facility Permit Variance for Hewlett-Packard Company, 8/26/85.
- 3. RCRA Part B Permit Application; Hewlett-Packard Microwave Semiconductor, CAT6114, no date.
- 4. Request for DOHS Hazardous Waste Facility Permit, Variance for Hewlett-Packard Company, 3/15/83.
- 5. Contact Reports, Sandy Szabat and Julie Noffke, FIT, to Gail Brownell, HP, 10/14/87, 10/28/87, 10/30/87.
- 6. Groundwater and Drinking Water in the Santa Clara Valley: A White Paper, DOHS, RWQCB, Santa Clara County Public Health Department, Santa Clara Valley Water District, EPA, 10/5/84.
- 7. Facility Questionnaire, Hewlett-Packard Company, CAT00611400, RWQCB San Francisco Bay region.
- 8. Facility Questionnaire, Hewlett-Packard Company, CAT061440, RWQCB San Francisco Bay region. Appendix 1 to #6.
- 9. Contact Report, Sandy Szabat, FIT, to Don Eisenberg, Eisenberg Olivieri Associates, 11/2/87.
- 10. Letter from Jerry Thorne, HP, to Nick Brabander, DOHS, 3/15/83, and attachment A.
- 11. Subsurface Investigation by Applied Earth Consultants, 4/84.
- 12. Volatile Organics in Soil and Base/Neutral Compounds in soil samples, I.D.# 01-000821, Analytical Technologies, Inc., no date.
- 13. Letter from Susan Miller, HP, to Donald D. Dalke, RWQCB, 7/9/84.
- Laboratory Analysis Report, Samples #90 and 91, HP, 3/14/84.
- 15. Drinking Water Action Levels Recommended by DOHS, 1/87.
- 16. Laboratory Analysis Report, Samples #1,2 and 3, HP, 6/26/84.
- 17. Letter from Timothy B. Anenson, IT-Martinez, 6/13/86.

- 18. Letter from Gail Brownell, HP, to Mike Randolf, San Jose Fire Department, 9/30/86.
- 19. Letter from Patricia L. Murphy, IT-Santa Clara, to Timothy B. Anenson, IT-Martinez, 6/13/86.
- 20. Letter from Charles A. White, DOHS, to Jerry Thorne, HP, 1/12/83.
- 21. Hazardous Waste Compliance Report, HP, DOHS, 4/18-19/84.
- 22. Industrial Discharge Permit for HP, SJ-003A, October 3, 1982, San Jose/Santa Clara Water Pollution Control Plant.
- 23. Request for DOHS Hazardous Waste Facility Permit Variance for Hewlett-Packard Company, 8/26/85, and attachments.
- 24. Assessment of Contamination from Leaks of Hazardous Materials in the Santa Clara Basin 205j; report, RWQCB et al, 7/85.
- 25. Adrian, George, Engineer of Water Quality, San Jose Water Company, Letter to Dan Schwartz, EPA Regional Administrator, 7/18/84.
- 26. Contact Report, Tom Beer, FIT, to Luane Schnelle, City of Santa Clara, 4/6/87.
- 27. Letter from Scott Yoo, San Jose Water Company, to Tom Beer, FIT, 10/15/87.
- 28. Climatic Atlas of the United States, U.S. Department of Commerce, June 1968, reprinted 1983.
- 29. Contact Log, Julie Noffke, FIT, to Dennis Ely, Santa Clara Valley Water District, 9/17/87.
- 30. Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.
- 31. Contact Report, Sandy Szabat, FIT, to Charlene Williams, DOHS, 10/23/87.
- 32. Contact Report, Julie Noffke, FIT, to John Dover, EPA Computer Sciences Corporation, 10/16/87.

### PRELIMINARY ASSESSMENT CONTACT LOG

Facility Name: Hewlett-Packard Microwave Semiconductors

Facility ID: CAT000611400

Name	Affiliation	Phone	Date	Information
Joe Afong	San Jose Fire Department Hazardous Materials Section San Jose, CA		9/10/87	File sent.
	San Jose Assessors City Hall, 5th floor San Jose, CA		9/10/87	Parcel Number for HP is 97-45-021. The owner of this parcel of land is HP company.
Martita Jenung	DOHS	(415) 540–3487	9/24/87	RCRA Part B file not found.
Elizabeth Cameron	RWQCB	(415) 464-0825	9/25/87	As minor contamination is present, HP is currently a "no action" site; she had no site history information or updates.
Janet McCarron	San Jose Water Pollution Control Dist.	(408) 945-5300	9/8/87	See Contact Report.
Dennis Ely	Santa Clara Valley Water District	(408) 265-2600	9/17/87	Surface waters (including the Guadalupe Slough, Stevens Creek, Calabazas Creek and San Tomas Aquino Creek) in the Sunnyvale area are not utilized as drinking water.

### PRELIMINARY ASSESSMENT CONTACT LOG

Facility Name: Hewlett-Packard Microwave Semiconductors

Facility ID: CAT000611400

Name	Affiliation	Phone	Date	Information
Don Eisenberg	Eisenberg Olivieri Associates	(405) 653-099	96 11/1/87	See Contact Report.
Gail Brownell	Hewlett- Packard	(408) 435-418		7 See Contact Report. 7 See Contact Report.
Gail Brownell	Hewlett- Packard	(408) 435-418	33 10/30/87	7 See Contact Report.
John Dover	Computer Sciences Corporation	(415) 974-8346	5 10/16/87	HP is listed as a generator only for EPA RCRA Status.
Charlene Williams	DOHS	(415) 540-3053	10-23-87	See Contact Report.

AGENCY: City of San Jose Water Pollution Control District

ADDRESS: 700 Los Esteros Road, San Jose

PERSON

CONTACTED: Janet McCarron, Senior Industrial Waste Inspector

PHONE NO: (408) 945-5300

FROM: M. Hourigan

TO: CERCLIS file

**DATE:** 9/8/87

SUBJECT: Permit Renewal for HP and Compliance Record

Ms. McCarron confirmed the renewal of HP permit to discharge from their 350/370 West Trimble Road facility. She wasn't able to confirm whether the permit was exactly for the same discharge since it is confidential information and a letter from HP would be required to release the information. HP Has had no violation of discharge on their permit.

AGENCY: Eisenberg Olivieri Associates

ADDRESS: 6214 Florio Street

Oakland, CA

PERSON

CONTACTED: Don Eisenberg

PHONE NO: (415) 653-0996

FROM: Sandy Szabat

TO: CERCLIS File

DATE: 11-2-87

SUBJECT: RWQCB Policy for requiring subsurface investigations beneath

waste solvent tanks.

Mr. Eisenberg was employed at RWQCB during the time that RWQCB facility questionnaires were distributed and evaluated.

Mr. Eisenberg indicated that RWQCB required that a subsurface investigation be initiated beneath all unvaulted underground storage tanks that contained waste solvents.

The investigations consisted of one soil boring, starting from as close to the bottom of the tanks as possible and extending for 30 feet beneath the tanks. Soil samples were collected and analyzed for volatiles. RWQCB required installation of monitor wells if groundwater was encountered in the 30-foot boring.

AGENCY: Hewlett-Packard Microwave Semiconductor

ADDRESS: 350/370 W. Trimble

San Jose, CA 95131

PERSON

CONTACTED: Gail Brownell

PHONE: (408) 435-4183

FROM: Julie Noffke

TO: File

DATE: 10-14-87

SUBJECT: SITE HISTORY

HP began construction of the facility in 1978 with completion probably in 1979. HP has occupied the building ever since. Prior to that time; the site was farmland.

- The 2,000-gallon solvent tank was removed in 1984.
- The Guadalupe River is located adjacent to the site.

AGENCY: Hewlett-Packard

ADDRESS: 350 W. Trimble Road

San Jose, CA 95131

PERSON

CONTACTED: Gail Brownell

PHONE: (408) 435-4183

FROM: Sandy Szabat

TO: CERCLIS file

DATE: 10-28-87

SUBJECT: Status of Hazardous Waste Drum Storage in Storage Shed 91

DOHS denied HP's request for a variance to store drummed hazardous waste (e.g. potassium cyanide and lab-pack wastes) in excess of 90 days without a storage permit, so I asked Ms. Brownell if HP intended to apply for a storage permit. She responded that HP is shipping these wastes in less than 90 days so as to maintain status as a RCRA generator (instead of a RCRA storage facility).

AGENCY: Hewlett-Packard

ADDRESS: 350 W. Trimble Road

San Jose, CA 95131

PERSON

CONTACTED: Gail Brownell

PHONE: (408) 435-4183

FROM: Sandy Szabat

TO: CERCLIS file

DATE: 10-30-87

SUBJECT: (1) Hazardous waste collection and storage at HP; (2)

Fluoride treatment system and acid neutralization system;
(3) Locations of subsurface drainage collection sumps.

### Ms. Brownell related the following:

1) Waste solvents are stored in tanks in underground vaults. One 750-gallon waste solvent tank is in a vault adjacent to the northwest side of Building 90; two 1000-gallon waste solvent tanks are in a vault adjacent to the northwest side of Building 91.

Waste stripper (mixture of TCA, other solvents, and organic acids) is collected in a 300-gallon tank in the basement of Building 90 and is then pumped into the 750-gallon waste solvent vaulted tank. In Building 91, waste stripper is collected in two 150-gallon tanks in the basement. These tanks are drained into 55-gallon poly drums, which are then transferred to a hazardous waste drum storage area in SS91. Waste potassium cyanide, waste gallium arsenide, and lab pack wastes are packaged in drums and stored (in separate sections) of the drum storage area in SS91.

2) In Building 90, waste hydrofluoric acid (contaminated with heavy metals) is poured (under hoods) into lab sinks, flows through lab drains to a 500-gallon collection tank and then to four 1200-gallon holding tanks, both located in a bermed area in the basement. The holding tanks contents are then pumped over to the fluoride treatment system in the Common Service Building. The fluoride treatment tank has a capacity of 5600 gallons. Treatment is done in batch. The two sludge holding tanks each have capacities of 2600 gallons. Building 91's waste hydrofluoric acid flows through lab drains to an 800-gallon collection tank, and then to a 5600-gallon holding tank, both located in an underground vault adjacent to the northwest side of Building 91. The holding tank contents is pumped as described above.

Metal-free waste acid/waste caustic collection and holding tanks in the basements of Building 90 and 91 are identical. Waste acid/waste caustic (uncontaminated by heavy metals) flows into a 300-gallon collection tank and then to a 2,200-gallon transfer tank. Waste in the transfer tank is pumped to the two-stage acid neutralization system in the Common Service Building. Treated effluent is discharged to the sanitary sewer under permit from the local water pollution control district.

3) The subsurface drainage collection sumps are located on the north sides of Buildings 90 and 91.

AGENCY: DOHS-Emeryville

ADDRESS: 2151 Berkeley Way, Annex 7 Berkeley, CA 94705

PERSON

CONTACTED: Charlene Williams

Senior Hazardous Materials Specialist

PHONE: (415) 540-3051

FROM: Sandy Szabat

TO: CERCLIS file

DATE: 10-23-87

SUBJECT: California DOHS permit requirements for HP

HP had applied for a variance from state permitting requirements for its acid neutralization system and fluoride treatment system in March 1983. I contacted Ms. Williams to check on the status of HP with DOHS.

Ms. Williams responded that DOHS granted HP a variance from state permitting requirements for its acid neutralization system and fluoride treatment system on June 22, 1984. Therefore DOHS regulates HP (350 West Trimble Road, San Jose) as a generator only.

AGENCY:

City of Santa Clara

ADDRESS:

**PERSON** 

CONTACTED:

Luanne Schnelle

PHONE:

(408) 984-3183

FROM:

Tom Beer

T0:

File

DATE:

4/6/87

City wells supply drinking water to the City of Santa Clara. Population served is approximately 89,500 from a 27-well integrated system. 20% of the drinking water supply is imported surface water from Hetch Hetchy Project.



COMPONENTS GROUP -SAN JOSE SITE • 350 West Trimble Road, San Jose, California 95131, Telephone 408 263-7500

### SUPPORTING DOCUMENTATION FOR VARIANCE REQUEST

### 1. DESIGN

- a) Potassium Cyanide Solution: Collected in NEW 55-gallon steel
- b) drums with Poly drum inside (DOT-6D, with Poly DOT-2SL).

LAB-PACK Material: Collected and overpacked with vermiculite in NEW 55-gallon steel drums (DOT-17H, Open-Head).

- c) Both of the above materials are stored in dedicated storage areas away from the main production buildings. Both storage areas consists of a locked fence in the front; concrete block walls on the remaining three sides and a roof. Both areas are well ventilated; equipped with lights and emergency showers. The floors are painted with a chemically resistant epoxy coating and sloped for spill collection. See ATTACHMENT #1 for Map of dedicated storage areas.
- d) See ATTACHMENT #2 for Map of waste facility location relative to company property lines.

### 2. WASTE CHARACTERIZATION

- a) Potassium Cyanide Solution: CN: 68,000 170,000 ppm with traces of As and 2-Propanol.
- b) Volume Generated: < 55-Gallon/Month.

  Dedicated Storage Area: For eight 55-gallon drums, with room for expansion.
- c) This solution is compatible with GaAs Slurry (Ga Reclaim Material), which
   is stored in same dedicated storage area.
- a) LAB-PACK Material: This is chemical products that cannot be disposed of in one of our normal waste drains. We collect from pass-throughs or on a will-call basis from various process areas. This material is segregated by compatible hazard class (See ATTACHMENT #3).
- b) Volume Generated: Very, very low. We may get 1 Qt. or 1 Gal. of a material and wait months before we get more that can be over-packed in the same outer drum. We have dedicated storage for one 55-gallon drum for each of the material listed on ATTACHMENT #3, with room for expansion.
- c) This material is compatible with other containers of waste in the same storage area see ATTACHHENT #1.

### 3. PROCESSES

- a) Potassium Cyanide Solution: 95% from III-V Wafer Fab Backlap Operations, and 5% from EPI's Junction Staining Station.
- b) GaAsP wafers are Lapped with DI Water, Aluminia Grit and Rust Inhibitor and then Etched in a Potassium Ferricyanide solution in a sink under a vented hood. After the material is spent, it is drained directly into a 5-gallon polyethyene container, where it is picked up and transferred to a DOT-6D with Poly DOT-2SL drum inside in our Toxic Waste Storage area.





# PACKARD

COMPONENTS GROUP + + 360 West Trimble Road, San Jose, California 95131, Telephone 408 263-7500 SAN JOSE SITE

# 3. PROCESSES (Continued)

b) EPI Junction Staining Station - The solution used is a mix of Potassium Ferricyanide, Isopropyl Alcohol and Di Water, which is collected in a 10-gallon waste tank built under the sink, with vented hood. Toxic Waste Handlers pick this tank up when less than ½ full and transfer to a DOT-60 drum with Poly DOT-25L drum inside in our Toxic Waste Storage area.

- c) IT Corp. vacuums from drums and transports to their Class 1 Site for cyanide destruction and other treatment, as necessary.
- a) LAB-PACK Material: is generated mostly from our Wafer Fab Operations, due to process changes or material becoming out-of-spec because of date, etc.

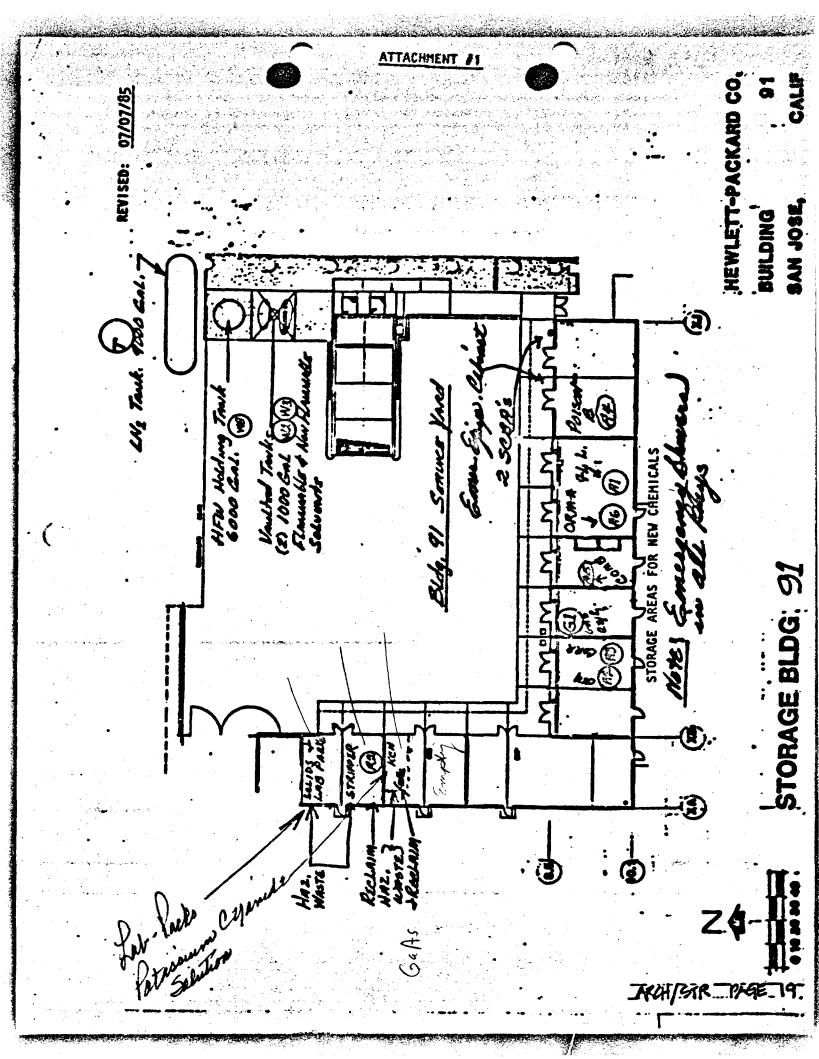
  Some material comes from our R&D Labs, where the material has been brought in-house on a trial basis.
- b) After pick-up by our Toxic Vaste Handlers, the material is taken to our Toxic Waste Bay where it is classified and segregated for compatibility and nazard class. Description of the material, container size and amount is recorded. The material is researched for components and %'s for use when preparing HW Manifest. Only compatible material of the same hazard class is overpacked in an open-head DOT-17H 55-gallon steel drum in its original container with enough vermiculite to absorb 110%. Maximum of 5-gallon per container, with a 20-gallon limit per 55-gallon drum. The drum is properly marked and labeled for disposal.
- c) We currently ship this material to a Class 1 Disposal Site for land-fill.

### 4. OPERATIONAL PROCEDURES

- a) The entire San Jose Site is fenced with 24-hour Guard Security in addition the designated storage areas consists of a locked fence, with Hazardous Waste signs posted on the fences in both English and Spanish.
- b) Toxic Waste Handlers have been trained in Chemical Handling, Toxic Waste Disposal Marking, Labeling, Packaging, as well as Emergency Procedures. We provide them with protective clothing, i.e.: Safety Shoes/Boots, Gloves, Tyvek Suits, Filter Respirators, etc.

Plan View - See ATTACHMENT #2
Process Flow Diagram - See ATTACHMENT #4

HLK:se Attachments



TO NORTH PIRST ST

SAN. SEWER DERINE HEWLETT-PACKARD CO.

SAN JOSE, CA. AMARI

Haz. Weste Storge Area

### CATEGORY #2

PROCESSES #7 THRU #13 DOT-17H (OPEN-HEAD DRUMS)

# MAZARDOUS WASTE (DRUMMED LAB-PACKS)

NOTE: THIS MATERIAL IS COLLECTED FROM PASS-THRUS BAILY OR ON WILL-CALL BASIS AND LAB-PACKED IN THEIR ORIGINAL CONTAINER WITH ENOUGH VERMICULITE TO ABSORB 1102

PROCESS #	PSN, HAZARD CLASS, UN/NA#	LABEL (S)
PROCESS 87	CORROSIVE LIQUID. N.O.S., CORROSIVE MATERIAL UN1760	CORROSIVE
PROCESS #8	FLAMABLE LIQUID, N.O.S. FLAMABLE LIQUID UN1993	FLAWABLE LIQUID
PROCESS #9	POISONOUS LIQUID, W.O.S., POISON B UN2810	POISON
PROCESS #10	OXIDIZING MATERIAL, N.O.S., OXIDIZER UNI479	OXIDIZER
PROCESS #11	NAZARDOUS WASTE, SOLID, M.O.S., ORM-E NA9189	
PROCESS #12	NAZARDOUS WASTE, LIQUID, N.O.S., ORM-E NA9189	
PROCESS #13	WASTE FLAMMABLE LIQUID, POISONOUS, N.O.S., FLAMMABLE LIQUID UN1992.	FLAWABLE LIQUID POISON

WASTE MANAGEMENT SUMMARY:

SAN JOSE SITE COMPONENTS GROUP

CONTAINERIZED

WASTE

WASTE . STREAM

WASTE COMPONENTS ON SITE COLLECTION ON SITE STORAGE OFF SITE DISPOSAL

CONTAMINATED SOLIDS -wipes, gloves, clothing spill meterials

Surface or adsorbed conteminents: As. Acid, Solvenis

from process areas in begs by waste

handlers and ++++ **IDIBREssesse** 

Buriel-CVM site Coatinge, CA

ienitors-delivi

Mostly

bandiers

Class I Her. Waste Lendilli

LIQUIDS IN CONTAINERS -usually one gallon (LAB-PACK MATERIAL)

PHOTO RESIST. Oxidizers, Used or Oxidated chamicals

STRIPPER .

from pess throughs and on will call 🌳 🍑 bests by weste

Buriel-CVN Ste Lab Packed in DRUMS Continue. CA

DRUMONED LIQUIDS

emptied from 3

incinerated

holding tents +++ into DRIMS\*\*\* Systek (2-120 gel & 1-300 gai)

Coment Kith S. Cettiornia

POTASSIUM CYANIDE ....

5 still containers in process area + + emptied \*\*\*\*\*

CE Destruction

IL CA into drives

at IT Corp

PHOTORESIST (+/-)

from pass throughs

Recycled

in one gation \*\*\*

omptied\*\*\*\*\*\* into DRUMS

**Solvent Services** Sen jose, CA

Gail Brownell Site Environmental Engineer

bottles

# CALIFORNIA RECHARL WATER CUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

# FACILITY QUESTIONNAIRE (use separate questionnaire for each facility address)

ı.	œ	MPAN		PACKARD COMPANY SEMICONDUCTOR	DIVISION	•
II.	FA	CILII	Y ADDRESS: 350 WEST	TRIMBLE ROAD	S131	•
III.	EP	A I.I	. NUMBER (RCRA) (if	applicable)	, ,3131	
IV.		es th antif	CAT00061 be facility have any Y•	of the following	y items? If s	o, please
	A.	und	lerground non-waste S	torage tanks		
		1.	vaulted	yes <u>X</u>	no	number 2
		2.	non-vaulted	yesX	no	number 1
, <b>s</b> t	В.	und	lerground waste storm	je tank <b>s</b>	•	
		1.	vaulted	yes	no X	number
		2.	non-vaulted	yes X	no	number 1
<b>,</b>	c.	tre	atment units (tanks	or sumps)		
•		1.	vaulted tanks	yes	no X	number
•		2.	non-vaulted tanks	yes	no X	number
÷.		3.	concrete sumps	ycs	no <u>X</u>	number
÷		4.	other	yes	no <u>X</u>	number
	D.	und	erground piping* - 1	n inspection gal	llery	
		1.	gravity	yes	no X	estimate length
	•	2.	pressure	yes	no X	estimate length
	E.	und	erground piping* - b	iried	•	
	-	1.	gravity	yes X	no	estimate length 42'
		2.	pressure	yes X	no	FUEL OIL 120' SUPPLY estimate length 120' RETURN
				•		

Reference # 7

<sup>\*</sup> except water, natural gas, electrical or domestic sewage (i.e. not chemical or industrial waste)

<sup>\*\*\*</sup>Underground waste solvent tank will be abandoned and an above ground tank installed as soon as construction standards and ordinances are finalized.

	A.	urx	derground non-wa	ste storage tan	ks		
		1.	vaulted .	yes	no	Х	number
		2.	non-vaulted	yes	no	X	number
	B.	unc	lerground waste	storage tanks		•	•
-		1.	vaulted	yes	no	X	number
		2.	non-vaulted	yes	no	<u> </u>	number
	c.	tre	eatment units (t	anks or sumps)			•
		1.	vaulted tanks	yes	no_	<u>x</u>	number
		2.	non-vaulted tanks	yes	no	x	number
		3.	concrete sumps	yes	no	<u> </u>	number
		4.	other	yes	no_	X	number
	D.	und	erground piping	* - in inspecti	on gal	lery	•
		1.	gravity	yes	no_	<u>x</u>	estimate length_
		2.	pressur <b>e</b>	yes	no_	_ Х	estimate length
	E.	und	erground piping	* - buried	٠	•	
		1.	gravity	yes	no	X	estimate length_
		2.	pressure	yes	no_	X	estimate length_
[.	if	know	n, as an attach	ment to this que	e provi estion		llowing information SEE APPENDIX #1
	١.		e (gallons, cub	·			•
٠.	•		struction mater:	lais or each uni			
• .			•				-Face ha has and
•		Sch	ematic of unit and tom of unit and			n ground su	rrace to top and
	3.	Sch		attached pipir	ıg.	_	- 

- Year unit installed, year unit placed in operation and, if applicable, removed. 1978
- 7. If flow-through treatment unit list daily volume
- 8. Describe any corrosion protection provided to unit and nature of monitoring this protection.
- 9. Describe any regular procedures used to determine the integrity of the unit and the results of these procedures.
- 10. Describe any repairs made to these units which could be indicative of some failure of the units integrity.

### VII. If you indicated that you have or had either a:

- non-vaulted buried waste solvent tank without corrosion protection which was placed in operation prior to January 1, 1975; or,
- concrete sump into which solvents were or are being discharged for .
   the purpose of storage, treatment, separation or disposal

you are required to immediately implement an investigation program to determine if the unit(s) described in this section are or have been leaking (see page 2 of letter of transmittal).

- A. Yes, I have a unit(s) described in this section and I intend to implement an investigation program.
- B. Yes, I have a unit(s) described in this section but I do not intend to implement an investigation program for the following reasons:

# X C. No, I do not have a unit(s) described in this section

### VIII. This questionnaire shall be signed below as follows:

- A. In the case of corporations, by a principal executive officer at the level of vice-president or his duly authorized representative if such representative is responsible for the overall operation of the facility from which the discharge originates, or
- B. In the case of a partnership, by a general partner, or
- C. In the case of a sole proprietorship, by the proprietor, or
- D. In the case of a municipal, State, or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

This questionnaire has been completed under penalty of perjury and, to the best of my knowledge, is a true and correct.

Signature: W.B. Wholey	Date: 5/21/92
Printed Name: W.B. Wholey	•
Title: VP	Phone: 415-857-2345
Vice President, Corporate Services	
Contact name (if different from above):	JERRY T. THORNE, P.E.
Title: MANAGER, SAFETY & HEALTH Phon AND ENVIRONMENTAL ENGINEERING	e: (408) 263-7500 X2302

### APPENDIX 1

# A. TANK NUMBER T1 - Gasoline Storage Tank

- 1. Size 2,000 gallons
- 2. Construction Materials See Attachment #1
- 3. Schematic of Unit showing; distance from ground surface to top and bottom of unit and attached piping See Attachment #2
- 4. Plot Plan showing location of all units and relevant buildings See Attachment #3
- 5. Specific Composition of Materials which unit holds Unleaded Gasoline
- 6. Year Unit installed and placed in operation 1978
- 7. If Flow-through Treatment unit list daily volume N/A
- 8. Describe any Corrosive Protection provided to unit See Attachment #1
- 9. Describe any Regular Procedures used to determine the integrity of the unit and the results of these procedures Check level with DipStick. No leaks noted.
- 10. Describe any repairs made to those units which would be indicative of some failure of the units integrity None

# B. Tank Numbers T2 and T3 - Puel Oil Storage Tanks

- 1. Size 12,000 gallons each
- 2. Construction Materials of each unit Fiberglass, Owens-Corning
- 3. Schematic of unit showing; distance from ground surface to top and bottom of unit and attached piping See Attachments #4 and #5
- 4. Plot Plan showing location of all units and relevant building See Attachment #3
- 5. Specific Composition of materials which units hold #2 Puel Oil
- 6. Year Units installed and placed in operation 1978
- 7. If Flow-through treatment units, list daily volume N/A
- 8. Describe any corrosive protection provided to unit Fiberglass Tanks
- 9. Describe any regular procedures used to determine the integrity of the units and the results of these procedures Level checked with Dip Stick periodically. No leaks detected.
- 10. Describe any repairs made to these units which could be indicative of some failure of the units integrity None

# APPINDIX I (Cont'd)

# C. TANK NUMBER T4 - Waste Solvent Storage

- 1. Size 2,000 gallons
- 2. Construction Materials of unit See Attachment #1
- 3. Schematic showing; distance from ground surface to top.and bottom of unit and attached piping See Attachment #6
- Plot Plan showing location of all units and relevant buildings -See Attachment #3
- 5. Specific Composition of materials which unit holds -

Isopropyl Alcohol	15-25%
I, I, I - Trichloroethane	15-25%
Trichloroethylene	5-101
Acetone :	20-30\$
Methyl Alcohol	5-15%
Butyl Acetate	5-15%
Methylene Chloride	5-10%
	0-51
Xylene	0-58
Oil	U. JU

- 6. Year Unit installed and placed in operation 1978
- 7. If Flow-through treatment unit, list daily volume N/A
- 8. Describe any corrosive protection provided to unit See Attachment #1
- 9. Describe any regular procedures used to determine the integrity of the unit and the results of those procedures Level checked with Dip Stick three times per week. No leaks noted.
- Describe any repairs made to the unit which would be indicative of some failure of the unit's integrity - None

# CONSTRUCTION MATERIALS AND PROTECTION GASOLINE TANK (T1) AND SOLVENT WASTE TANK (T4)

# I. GASOLINE DISPENSING SYSTEM. (T1)

# A. Steel Pipe and Fittings:

Schedule 40 black steel pipe and malleable banded fittings with swing joint assembly.

### B. Gasoline Tank:

2000 gallon capacity fiberglass tank. Tank, piping and accesories, including ballast slab, to be as detailed on drawings.

# . II. SOLVENT WASTE SYSTEM (74)

# A. Galvanized Steel Pipe and Fittings:

ASTM Specification A-120 pipe with ASTM Specification A-47 Grade 32510, 150 lbs. galvanized, banded, malleable threaded fitting for steel pipes 2-1/2" or smaller. Flanged pipe and ASTM Specifications A-126, Class B, 125 lbs. galvanized cast iron fittings for 3" pipe or larger.

# B. Copper Pipe and Fittings:

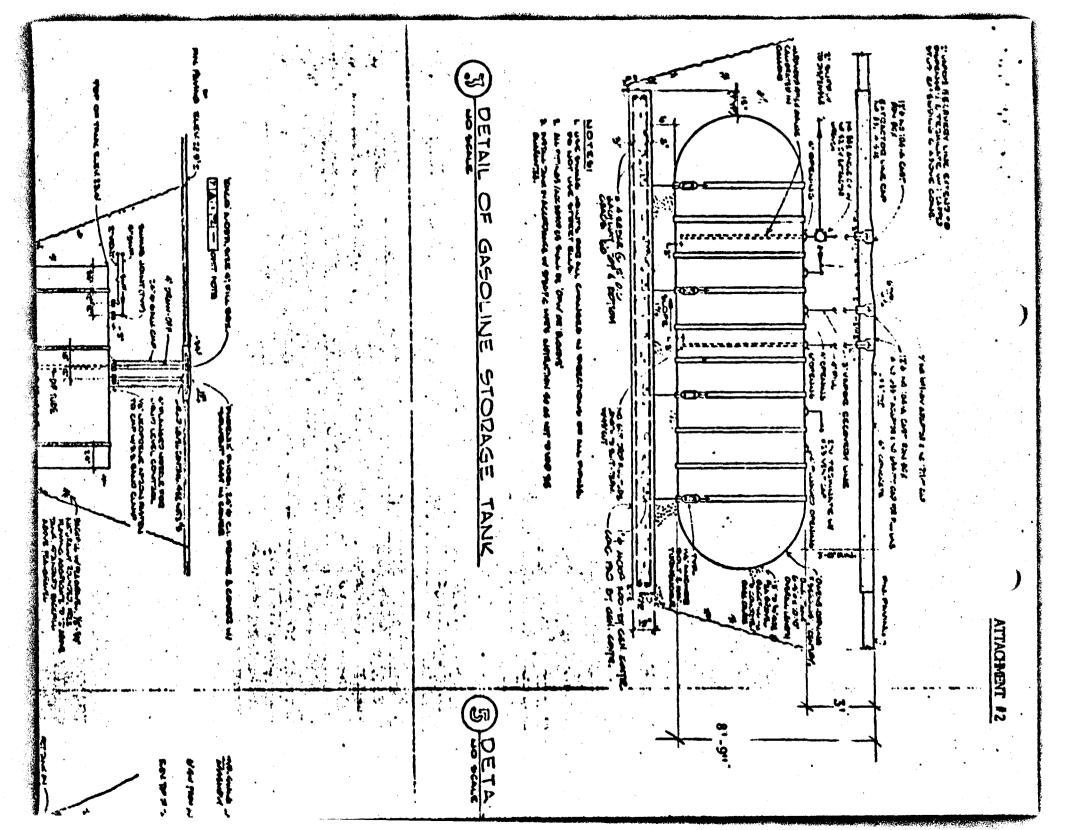
ASTM Specifications B-88, Hard Drawn tubing with ANSI Standard B16.22 wrot copper fittings.

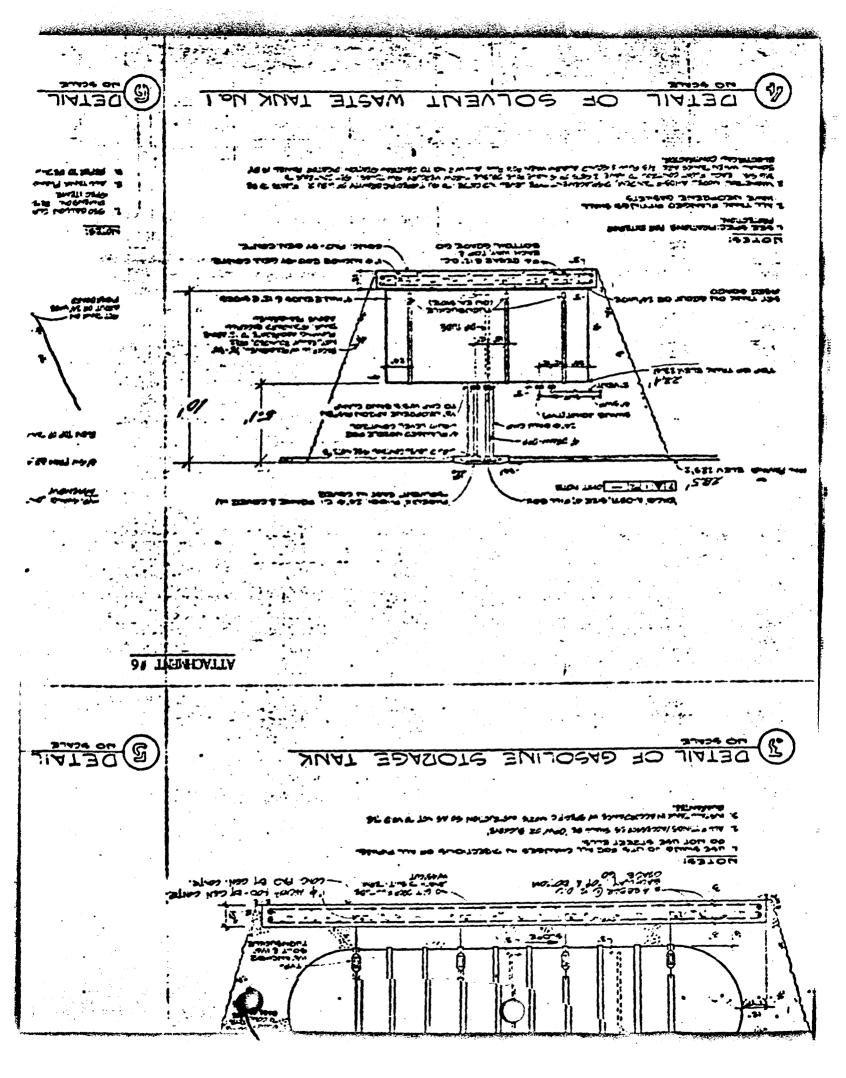
# C. Solvent Waste Storage Tank:

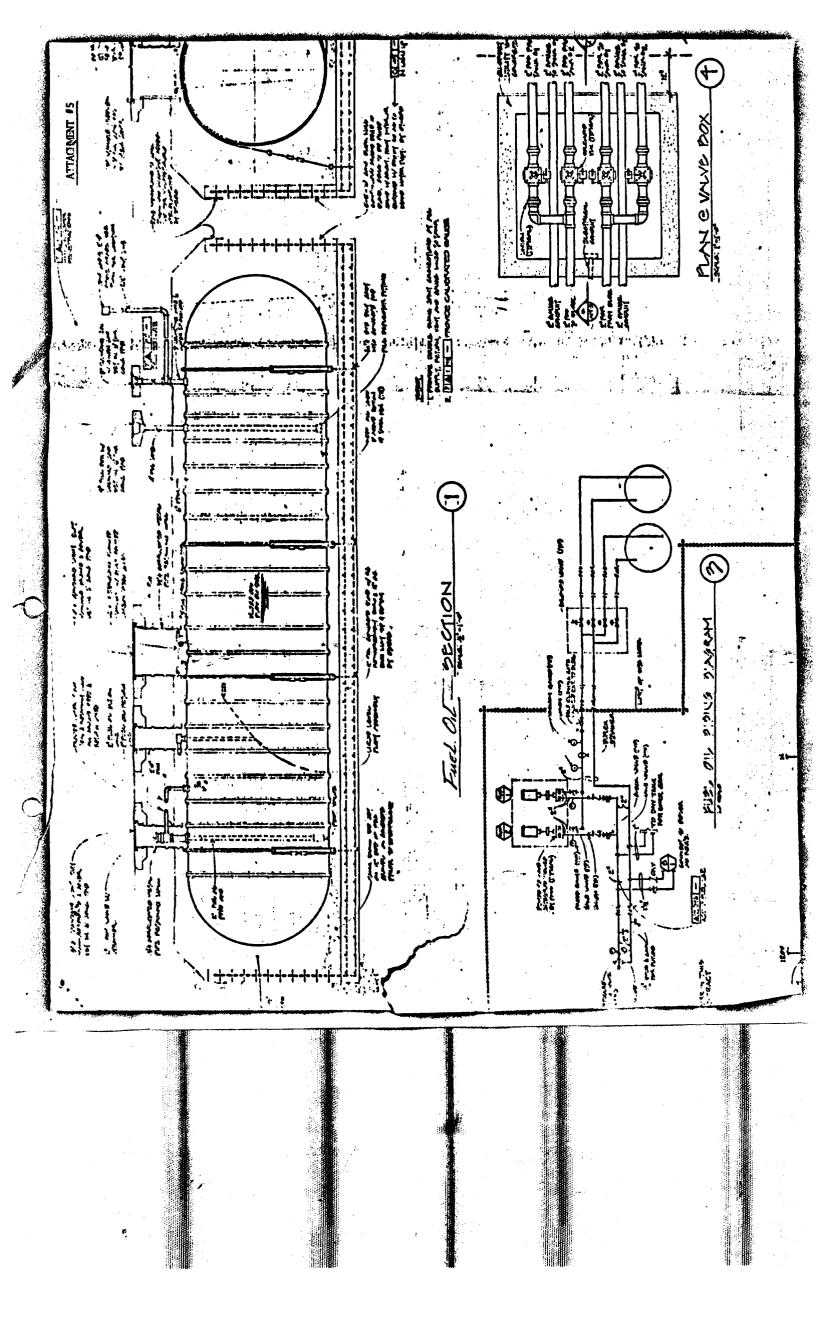
2000 gallon capacity, 10 gauge black steel, all welded construction. Flanged nozzles cut to tank contour and welded to tank by tank manufacturer. Protect outside of tank with two (2) coats of Fabertite Coal Tar. Touch-up scratches or skips in field prior to setting tank. Coat all metallic accessories, such as holding down anchors, turn buckles, manhole riser, etc. Arrangement and accessories, including ballast slab, to be as detailed on drawings.

III. PROTECT STEEL AND GALVANIZED STEEL PIPE installed below grade to 6" minimum above grade with factory applied covering, PRO-CO., felt and pipe line enamel No. 4 double wrap, X-Tru-Coat plastic coating, OAA. X-Tru-Coat and all plastic coatings used on gas piping must receive additional double layer of Scotchrap #51, OAA, 20 mil tape applied at job site to cleaned coating. Protect field joints as follows: clean fittings, nipples, and other field joints thoroughly and apply Tapecoat Company, OAA, prime coat and one layer of Tapecoat #20 heat applied 62 mil tape in accordance with manufacturer's recommendations. Tapecoat distributed by Calpico, 185 Harbor Way, South San Francisco.

Test all below grade steel pipe in the presence of Job Inspector with Tinker and Rasor Holiday Detector as performed by California Pipe Service, South San Francisco, OAA; rewrap pipe where test indicates coating faults and retest; repeat procedure until system is free of all coating faults.







Sin Jose

# GUIDELINES FOR TESTING UNDERGROUND TANKS AND PIPING

The following procedures have been developed as general guidelines for leak-testing underground tanks and piping. If you have questions or need help on a specific application, contact Dennis Early, Corporate Construction (TELNET 1-857-4729). Underground tanks and piping should be tested for leaks by applying a hydrostatic pressure of ten feet of water for twenty-four hours:

- Prepare the tank by removing it from service and emptying it.
   Isolate the tank/drain line by closing valves and/or installing blind flanges to block flow.
- 2. Install a vertical standpipe. As a general rule, the standpipe should be constructed of material compatible with the waste stored in the tank at least until it reaches grade. Continue with clear PVC (1/2 inch diameter) to a height of approximately 11 feet above the tank top.
- 3. Fill the tank and standpipe with water to a height of 10 feet above the tank top. Check for gross leakage. If gross leakage is not evident, float approximately 1 inch of oil (approximately 3 ml) on top of the water in the standpipe to reduce evaporation and aid in seeing the meniscus.
- Mark the water height in the standpipe. Let stand twenty-four hours and check for a drop in the water level.
- Drain the tank and standpipe, recovering the oil from the standpipe.
   Water used in the test should be properly disposed of to waste treatment or a licensed waste hauler.

Sin Jose

# GUIDELINES FOR TESTING UNDERGROUND TANKS AND PIPING

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- Prepare the tank by removing it from service and emptying it.
   Isolate the tank/drain line by closing valves and/or installing
   blind flanges to block flow.
- 2. Install a vertical standpipe. As a general rule, the standpipe should be constructed of material compatible with the waste stored in the tank at least until it reaches grade. Continue with clear PVC (1/2 inch diameter) to a height of approximately 11 feet above the tank top.
- 3. Fill the tank and standpipe with water to a height of 10 feet above the tank top. Check for gross leakage. If gross leakage is not evident, float approximately 1 inch of oil (approximately 3 ml) on top of the water in the standpipe to reduce evaporation and aid in seeing the meniscus.
- 4. Mark the water height in the standpipe. Let stand twenty-four hours and check for a drop in the water level.
- 5. Drain the tank and standpipe, recovering the oil from the standpipe. Water used in the test should be properly disposed of to waste treatment or a licensed waste hauler.

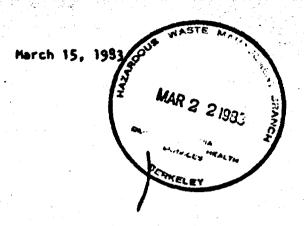
Bid Anchors of Jel Construction Construction Schoolile Solvent Pant Replacement HP. USD Building 90 enced by S.J. 14 一四八點 6個

EXHIBIT 2



MICROWAVE SEMICONDUCTOR DIVISION - 350 West Trimble Road, Sen Jose, California 95131, Telephone 408.263-7500

Nick Brabander State of California Department of Health Services 2151 Berkeley Way Berkeley, California 94704



Dear Nick.

Enclosed is a request for Hazardous Waste Facility Permit Variance covering Hewlett Packard's Manufacturing Facilities at 350 West Trimble Road (HP Bldg. 90) and 370 West Trimble Road (HP Bldg. 91), in San Jose. Our facility at 370 West Trimble Road (HP Bldg. 91) will not be occupied until early 1984; however, we would like to cover those operations with this variance request since both facilities will utilize some common waste handling facilities.

The enclosed request covers information relevant to our Elementary Acid/Base Neutralization System and our Fluoride Treatment System. Our fluoride treatment system is not operational as yet and we do not anticipate start-up for approximately two to three months.

Currently the fluoride waste system consists of four 1200 gallon fiberglass reinforced plastic tanks connected by a common header and is located in the basement of Building 90. The system is used for temporary storage of Hydrofluoric acid waste and other liquid acid waste that may contain trace amounts of metals regulated by the San Jose/Santa Clara Water Pollution Control Plant. This waste is hauled away every 20 to 25 days by IT Corporation to their hazardous waste disposal site for neutralization. Since these four tanks will become a holding system (Bldg. 90 only) for our new fluoride treatment system further discussion is included as a part of the "Supporting Documentation for Variance Request".

Other waste handling systems currently in use include the following:

mixture of solverts organic occids Stripper Waste Stripper waste is drained from laboratory hoods located in our wafer fabrication processes through stainless steel lines to a stainless steel tank (300 gal. capacity) located in the basement of Building 90. The waste is held here for less than 90 days, when it is pumped to the outside of Building 90 where it is drummed in D.O.T. approved drums. It is then transported to the Kettleman Hills Disposal Site where it is solidified Basemort Co 91

Drain into Drums of Stances Shop

Drain Bild 90 sound Tank and landfilled.

#### B. Solvent Waste



The current solvent holding system consists of an underground 2000 gallon capacity, 10 gauge black steel, all welded construction tank. This system acts in the capacity of temporary storage for all organic solvent waste in that solvents are held in storage for less than 90 days. Waste solvents are hauled away within the 90 day period for partial reclamation by Solvent Services Company.

It should be pointed out that we are in the process of obtaining approval from the City of San Jose for the installation of a 750 gallon vaulted tank storage system. This system has already received approval by the Regional Water Quality Control Board who has also allowed us to delay submission of groundwater and soil samples from beneath the existing tank until the existing tank has been removed. We anticipate removal of this tank by July 1, 1983.

The vault storage system for Building 91 which has never been used, is currently going through the same approval process.

#### C. Lab Packs

Miscellaneous laboratory wastes are identified and labeled at the work stations where they are picked up and classified. They are then packed in vermiculite (in their original sealed containers) in accordance to their classification, drummed in D.O.T. approved barrels, and hauled away by I.T. Corporation to a licensed disposal site at least every 90 days.

This same procedure will be used for HP Building 91 lab pack waste.

Attached for your review (Attachment #1) is a copy of the most recent interim Status Document Inspection Report and our response to it which indicates that our waste handling systems and procedures are in compliance with our Interim Status Document.

in conclusion, since no waste material is held at this facility beyond the 90 days required to be considered as a storage facility, the primary emphasis of our variance request is on our Acid/Base Neutralization System and our Flouride Treatment System.

if you have any questions or if you need further information for proper consideration of this request, please give me a call at (408) 263-7500 x2302.

Im T. Thorne

Herry T. Thorne, P.E.

Manager, Safety and Environmental Engineering

# BEQUEST FOR CHARDOUS WASTE PACILITY PERHIT VARIANCE

# California Department of Health Services Hazardous Vaste Management Branch

I would like to request a variance from the Razardous Waste Facility Permit requirements of the California State Department of Health Services.

<b></b>		ting a variance for the following type of facility:
4	)	Container storage
(	)	Tank storage
		( ) located above ground
		( ) located below ground
	)	A totally enclosed treatment facility.
		An elementary neutralization unit.
		A facility that discharges directly to a POTW.
	-	Other (specify) no waste storage for longer than 90 days
his faci	111	y is owned/operated by Hewlett-Packard Company
Micro	wav	
		e Semiconductor Division
		ed at350 Vest Trimble Road, San Jose, Co. 95131
an basi	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock
an basi	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:
am basi	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:  ( ) small quantity;
an basi	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:
an basi	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:  ( ) small quantity;  (X) low concentration; and/or  (X) physical or chemical characteristics.
am basi f Title XX) 663	ng 22,	my request for a variance on the following checked (X) sections California Administrative Code:  a)(1) The hazardous waste at my facility is insignificant as a potential hazard to humans, domestic livestock or wildlife because of its:  ( ) small quantity;  (X) low concentration; and/or  (X) physical or chemical characteristics.  a)(2) The hazardous waste at my facility is handled, processed or disposed of pursuant to regulations of another govern

(Attachment A1)

I am attaching information and drawings as outlined in Attachment A in support of this variance request. For any facilities involving underground tanks, I have attached information on a proposed groundwater monitoring program as outlined in Attachment B.

I understand that any variance from the Mazardous Waste Facility Permit requirements of the Department of Health Services, if granted, does not exempt my firm from any other applicable laws and regulations governing the management of hazardous wastes.

I certify that all information submitted with regards to this variance request is true, accurate and complete.

Hewlett-Packard Company - MSD by Jer	ry T. Thorne, P.E.
(Applicant, Typed or Print)	Hewlett-Packard - MSD
(Signiture)	(Hailing Address)
Manager, Safety and Environmental	350 West Trimble Road, MS90/2D
(Title)	
(408) 263-7500 ext. 2302	San Jose, Ca 95131
(Telephone Number)	
March 15, 1983	CAT 000611400
(Date)	Interim Status Document No.

# SUPPLING DOCUMENTATION FOR VARIANCE REQUEST

#### HF WASTE TREATMENT

Hydrofluoric acid and other acid waste containing trace amounts of metals regulated by the San Jose/Santa Clara Water Pollution Control Plant are disposed of in "sink hole" type drains or aspirators located in various laboratory hoods in our wafer fabrication process. In Building 90, drain lines transport the material to a solvent trap tank located in the basement of the Building (tank 1, drawing XP-12). This 500 gallon solvent trap tank is constructed of fiberglass reinforced plastic.

From the solvent trap tank, the material is siphoned to four 1200 gallon fiberglass reinforced plastic tanks connected by a common header. Those tanks are also located in the basement of Building 90 (see tanks WT-1A, WT-1B, WT-1C, and WT-1D on Drawing XP-12). All tanks located in the basement of Building 90 are anchored to the concrete floor in a curbed and drained area.

At the present time, the hydrofluoric acid is pulled out of the holding tanks with an IT Corporation vacuum truck and hauled to a licensed disposal site. However, after start up of the fluoride treatment system, the material will be pumped to the fluoride system treatment tank (see tank T-3, drawings P6.10 and P2.32E) in the common service building located between Buildings 90 and 91 (see Attachment A2).

In Building 91, fluoride waste will be drained from laboratory hoods to a 800 gallon solvent trap tank and 5600 gallon holding tank located in a vaulted and drained area (see T2 and T8, drawing P6.10). From the waste vault, the material is pumped to the treatment tank in the service building mentioned above.

Drawing P2.32E, which is enclosed, illustrates the layout of the fluoride treatment system and drawing P6.10 illustrates the HF treatment system flow schematic and includes tank capacities. All treatment system tanks are constructed of fiberglass reinforced plastic and are anchored to a concrete, epoxy grout floor which is curbed and gravity drained back to the holding tank for Building 91. Fluoride is treated with a mixture of hydrated lime and CaCl<sub>2</sub> combined in a 2:1 weight ratio. The solid precipitate of CaF<sub>2</sub> drops out and the high pH decantate is pumped to T-1 (first stage of elementary acid/base neutralization system see Tank #1, drawing P2.32E) for neutralization. The residual is tested for arsenic and fluoride content prior to pumping to tank #1. The acid/base neutralization system discharges to the San Jose/Santa Clara Water Pollution Control Plant.

The resulting sludge is pumped to one of the two sludge holding tanks until hauled away be a licensed waste hauler.

- The waste generated normally contains 5000 to 6000 ppm of fluoride prior to treatment. Treatability studies and experience with this system at other facilities have indicated that this process reduces an initial fluoride concentration of 5000 ppm to less than 3 ppm. This waste could contain as much as 00 ppm of arsenic, which is reduced to less than .01 ppm.

### ACID/BASE NEUTRALIZATION

Since the neutralization transfer stations for both Buildings 90 and 91 are the same, they will not be described separately. The transfer station for Building 90 is illustrated in drawing XP-12, enclosed.

Basically, process acid and base waste that does not contain regulated contaminants are disposed of in laboratory hood sinks in our wafer fab processes, assembly and test processes, product assurance laboratories, etc. The material is drained to a 300 gallon solvent trap tank in the basement of each building (tank 8, drawing XP-12). The material is then siphoned to a 2200 gallon 11 mild steel transfer tank (tank 9, drawing XP-12) that has been lined with 3/32" B.F. Goodrich Koroseal liner. Both tanks are anchored to a concrete floor which has been provided with a curb and drain which would pump any spill back to the transfer tank.

When the material in the transfer tank reaches a specific level, it is pumped to the first stage of the neutralization system located in the common service building (A W neutralization tank 1, drawing P2.32E).

This material, as well as the decantate from the fluoride treatment system, is neutralized in two stages, using 50% sodium hydroxide and 98+% sulfuric acid. The sodium hydroxide is metered into each stage from a holding tank and the sulfuric acid is metered in from carboys (see drawing P2.32E - Elementary Neutralization System). The neutralization chemicals are metered automatically according to pH demand.

The pH of the material entering the neutralization system normally varies according to production activity. The pH can be as low as 2.5 during high production periods, and as high as 5.5 during evening hours or light production periods. The two stage sulfuric acid adjust is primarily utilized when D.1. water columns are regenerated when the pH can be as high as 11.

After neutralization, the material varies from pH 6 to pH 9, but normally runs around 8. This material is discharged to the San Jose/Santa Clara Water Pollution Control Plant which is a P.O.T.W.

Attached is an analysis of the material discharged to the P.O.T.W. (Attachment A3). An analysis of this nature is made on a monthly basis by collecting a 24 hour composit sample, which is analyzed by Hewlett-Packard's Corporate Environmental Lab. The attached analysis is for the month of January, 1983.

The neutralization tanks are 5200 gallon capacity each and are constructed of fiberglass reinforced plastic. They are anchored to the concrete, epoxy grout floor of the service building. In the event of a spill, a 450 gallon sump is available and a sump pump which would pump the spilled material back to the first stage of the neutralization system.



The entire perimeter of HP owned property at this site is completely fenced. There is also a secondary security fence, which further restricts access to the service building (see Attachment A2). The perimeter fence is protected by locked gates or manned security guard stations. Secondary interior fencing is protected by locked gates during off hours and alarmed emergency exit gates.

The doors to the service building itself are equipped with alarms which are set during off hours. These alarms anunciate to an electronic security panel located at a security station, which is manned 24 hours per day.

In addition, the property perimeter and buildings are patrolled by HP's security department during off hours.

## ATTACHHENTS

- Al Copy of San Jose/Santa Clara Water Pollution Control Plant Permit #SJ-003A
- A2 Layout of HP San Jose Site
- A3 Wastewater Analysis for January 1983

# ENCLOSURES

Drawing XP-12 Waste Transfer Area in Basement of Building 90

Drawing PG.10 HF Treatment System Flow Schematic

Drawing P2.32E HF Treatment and Neutralization System layout in common service building for Buildings 90 and 91



3000 Hanover Street, Palo Alto, California, Telephone 415 857-1501, TWX 910 373 126 CALIFORNIA REGIONAL NATER

July 9, 1984

JUL 13 1984

GUALITE CONTROL BOARD

Donald D. Dalke
California Regional
Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6040
Oakland, CA 94607

Re: Subsurface Investigation at HP, 350 W. Trimble Rd. 8J.

Dear Mr. Dalke:

This is in answer to your concerns regarding the discharge of basement drainage water to the San Jose storm drain. The analyses of subsurface collection water under Bldg. 90 basement reported in AEC's report dated April 12, 1984 indicated the water was tainted with 11.6 ppb of TCA; all other compounds analyzed for were nondetectable. I would like to clarify two details regarding this sample that I hope will alleviate your 1. This sample was bailed directly out of the collection sump before discharge from the pump. Due to the volatile nature of TCA and TCE, pumping greatly reduces their concentrations in the water. 2. Drainage water from both basements are pumped to a common pipe before discharge to the storm drain. Guadalupe Creek is believed to be the discharge location for this storm water.

Per your request, another sample of both basement collection water was collected. A sample was also collected in the storm drain after the merging of the two basement waters. Since this is the dry season, this is the only water being discharged to the storm drain at this time. On this second round of sampling, all analyses turned out nondetectable. Attached are the official lab results for your reference.

A copy of the HP laboratory certification for water and wastewater analyses is attached per your request. This should complete our investigation at this site. If you have any further questions, please direct them to me at (415) 857-8568.

Sincerely,

HEWLETT PACKARD COMPANY

Sean Mille

Susan Miller Corporate, Environmental Projects

cc: Ron Clausen

Reference #13

HEWLETT-PAC	CY CORPORATE	ENVIRONMENTAL	LABORA	Y	
	AQUEOUS	ORGANIC		JUN 201	1984
146. NO. 062084 05730	SAMPLING DA	TA SHEET	Date	June 22	.1984
1. LOCATION/OPERATION Division MSD		Coordinator	Jerry	Thorne	× 163-230
Sampling Situation All were removed f	nine sam	pks	Dave	Arots.	7657
the typical grown	d water con	taminant	i 611	ecially	TCA
II. SAMPLE DATA  Contaminant(s)/Regulatory 1	Limit(s)	TCA T	CE	mace,	Frem TF

# III. SAMPLING INFORMATION

Sample Number	Time	Date	Location & Misc. Information
3	1:4500	6-22-84	Parking Lot Sump
1	1:30	• 1	Bldg 90 Sump
2	1:20	11	Bldg 91 Sump
		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
		<i>*</i>	

(Analytical Results on Backside)



ST Fire Dept

RECEIVED SEP 2 1 1887

MICROWAVE SEMICONDUCTOR DIVISION • 350 West Trimble Road, San Jose, California 95131, Telephone 408 263-7500

Mike Randolf
San Jose Fire Department
Hazardous Materials Program
801 N. First Street, Room 100
San Jose, CA 95110

September 30, 1986

RE: Underground Tank Removal Closure of Gasoline Storage Hewlett Packard San Jose 350 West Trimble Rd.

Dear Mr. Randolf,

Attached is information which completes the documentation required for the removal of a two thousand gallon gasoline storage tank at Hewlett Packard's San Jose Site. You inspected the removal operation and underlying soil on June 5, 1986, and found no evidence of a leak.

The attached documents include:

- 1. A report from IT Corporation describing the removal and testing procedures. The report includes a site plan showing the former tank location.
- 2. A sample analysis request form for the soil sample taken from two feet beneath the tank, and the analysis results from this sample. The analysis showed no amounts of petroleum hydrocarbons above the detection limits.
- 3. A copy of the San Jose Fire Department Hazardous Materials Program Permit Application for the project.

The project is complete, and this information should complete your files. Please contact me at 408-435-4183 if you have any questions. Questions on the project can also be directed to Chuck Jorgensen in our facilities department, who ably managed this removal project. He can be reached at 408-435-4321.

Sincerely,

Gail Brownell

Environmental Engineer

cc:Chuck Jorgensen
Dominic Milazzo
Hazel Kelly
Jerry Thorne
Kamel Shalhoub
Dale Bowyer, RWQCB (for your files!) (hi!!)



# RECEIVED

IT Corporation 4585 Pacheco Blvd. Martinez, CA 94553 June 13, 1986

ATTN: Tim Amenson

Following are the results of analyses on the sample described below.

Project Number: ME 0167, Hewlett Packard

Lab Number: 40907 Sample Type: soil Date Received: 6/5/86

Analyses Requested: Volatile Fuel Hydrocarbons

The method of analysis for volatile fuel hydrocarbons is taken from E.P.A. Methods 8015, 8020 and 5030. The samples are examined using the purge and trap technique. Final detection is by gas chromatography using a flame ionization detector as well as a photo-ioniozation detector.

The results for total volatile fuel hydrocarbons are calculated as gasoline and include benzene, toluene, ethyl benzene and xylenes.

nd = no	ne detected	Results						
	<del></del>	Parts per	(dry so	il basis)				
Lab Number	Sample Identification	Volatile Fuel Hydrocarbons	Benzene	Toluene	Ethyl benzene and xylenes			
40907	HP-1, Removed ta pit, 6/5/86 @ 2:30 p.m.	nk nd	nd	nd	nd			
Detecti	on Limit	5.	Ø.5	Ø <b>.</b> 5	1.			

Patricia L. Murphy

Reference #19

DEPARTMENT OF HEALTH SERVICES 2151 BERKELEY WAY BERKELEY, CA 94704

Certified No. P 295 262 567 January 12, 1983

Jerry Thorne Manager, Safety & Environmental Engineering Hewlett-Packard Company 350 West Trimble Road San Jose, CA 95131

CAT000 611400

Dear Mr. Thorne:

On October 5, 1982 an inspection of your facility was conducted by Denise Tsuji of the Hazardous Waste Management Branch.

In general, it appeared that your facility was in compliance with your Interim Status Document (ISD), and the Hazardous Waste Control Act (California Health and Safety Code, Division 20, Chapter 6.5) and the Hazardous Waste Control Regulations (California Administrative Code, Title 22, Division 4, Chapter 30), CAC. However, the following conditions which appeared to be violations were observed during the inspection:

- 1) Not all storage tanks holding hazardous waste had the National Fire Protection Association's placards on them. (ISD Section II 2(d)).
- 2) No inspection schedule for equipment and operation has been written. (ISD Section III 5(b)(1)).

Section 66328(d) CAC states: "If corrections are needed, the operator shall provide to the Department a written plan of correction which states the actions to be taken and the expected dates of completion."

You are hereby directed to submit a Plan of Correction to this office, pursuant to Section 66328(d) CAC, which describes the steps you will take to correct these deficiencies. Your Plan of Correction must be received at this office within 30 days from the date of this letter.

If you have any questions concerning this matter, please contact Denise Tsuji of this office at (415) 540-3079.

Charles A. White, P.E. Regional Administrator

North Coast Region

Hazardous Waste Management Branch

cc: Paul Blais U.S. EPA

> Vincent Cancilla, Dir. Santa Clara County

# HAZARDOUS MATERIALS



# HAZARDOUS WASTE

# SURVEILLANCE AND COMPLIANCE REPORT



	$\mathbb{R}_{n}$ , which is the property of the property of $\mathbb{Z}_{n}$ . The property $\mathbb{Z}_{n}$
	DATE 9/8/84-4/9/84
FIRM NAME YEWLETT PACKARD SEMICONDUCTOR	SITE CLASSIFICATION I II-1 III-2 III
ADDRESS 350/370 TRIMBLE RO.	Other 60
SAN JOSE CA 95131	SITE PERMIT NO. <u>CAT</u> 000611400
PURPOSE : KSD /VARIANCE REQUEST	MSPECTION
BACKGEOUNE: REQUEST FOR VARIA	ER AGENCY (SANJOSE WPCP) AND LESS BD INSPECTION VIOLATIONS ONOT ALL HE
QUINCALIE HEWLETT PALKARO INC.; I	OIN A. YOUNG, PRESIDENT
	ENGINEER, NEW THERE TE GATMENT.  EPOPATE ENGINEER
PESCENTION OF FACILITY: FACILITY PRODUCTS. STRIPPER WASTE - DRIME, SHIPPER NEUTRALIZATION (ABOVE GROUND TRIVES) TO METAL REMARK CURRENTALY THIS W SOLVENTITURE SORAGE (OLD U.G. TANK H AS H.W. < 90 DAYS STRRAGE.	MANUFACTURES TRANSISTORS I INTEGRATED TRESMENT: ENSTRUG: PH WED TO BE STARTED LATE SUMMER - FURGISTIS WOPOSED TO BE STARTED LATE SUMMER - FURGISTS I WOFOSED TO BE STARTED LATE SUMMER - FURGISTS I WOOD TO BE STARTED LATE SUMMER - FURGISTS IN ASTE IS PUMPED ! DISPOSED OF ORRELY LIED
OBSERVATIONS:  ON 4/18/24 ASDRAGE SHED WAS LOCKED OF THE STURNED ON 4/19/84 BEEAR & DISH  ABLE TO ENTER AT ANY TIME (LE TOMES WORKED. UPON ORSERVATION AND LOOKED	JERRY SAID PERSON WITH KEY WAS GONE. I CLISSED THAT IT WAS UNSATISFACTORY TO NOT BE ECHSED THAT IT WAS UNSATISFACTORY TO NOT BE ECHSELY). HE SAID HE TORGET HIS MAJER KEY IN ORDER MUCH PASORBANT AVAILABLE NOTHING IN ORDER MUCH PASORBANT AVAILABLE NOTHING IN ORDER MUCH PASORBANT AVAILABLE NOTHING A EXISTING ( PROPOSED W.W. T. WORKS A EXISTING ( PROPOSED W.W. T. WORKS
INSPECTION SCHEDULE - SAME SATISFACTORY HW STORAGE - NO UIOLATIONS - SE	DATE 4/20/84  Reference # 21
IS WHEN FLUGGIOF TREATMENT IS	W LINE
INSPECTOR ANY ZIMPEER	DATE 4/20/84
	Reference # 21

# DEPARTMENT OF HEALTH SERVICES 2151 SERVELEY WAY SERVELEY, CA \$4704 SURVEILLANCE AND COMPLIANCE REPORT HAZADISTE MASTE CENTRATOR

States at the second of the se



# HAZARIES WASTE GENERATOR

	pare of the pectron: 4/18/14
EPA I.D. CAT 000611400	Inspector's Name: ZIMPFER
Generator Name/Address Hailing Address	Ownership
HELDETT PACKAGO - SAME	HEWIETT PACKAGO INC.
MICROWAVE SEMEONOUCHOR	PRESIDENT: JOHN A. YOUNG
350W.TRIMBLE PD.	
5NJOSE, CA 95131	
County SANTA CLARA Type of business:	Persons present Jerry Thorne Dave Bonks
Contact Person Tenny Horse Manufacture Trans	sissone Joyce Avery Amy Zample
Phone # (408) 263-7500 \$ INTEGRATED CIRCUITS	
Samples taken: Yes (receipt attached) No X	Avg. Gen. Rate (monthly)
Plan of Correction necessary: Yes (Due date:	)
Discussion with Management:  Wasse Strong. Suc extected City of Sandore  Quality for Bidy, 90+91. HFSystem - To be in  Full cupacity expected Early 86. In coming  of some residual avanic. Front & 70,000 pallow  Treatment. PH 10-10.5 to pH adjust. Studys C  to storage tank & 15% of charing Value. Vacuation  80 pon Aranic. HF waste currently being nor  Has NPDEC(see file).  No violations 4/19/84 - Revisit/Visual Inspect	alciumfluoride of residual areante um Truck pumps dry. 5-3,000 ppm F.
Facility operating under ISD? Yes X No	
On this date an inspection of your facility was conducted to California Health & Safety Code and Section 66328, Californ of samples or other evidence, including the taking of photo Section 66328, California Administrative Code. Specific vicalifornia Health & Safety Code, Division 20; California Administrative Code and Federal Regulations, Part 40 are noted on the attached documentation, storage, handling, transportation, and/or disponant code waste.	nia Administrative Code. The collection ographs, was done under authority of iolations of one or more Sections of the dministrative Code, Title 22; or Code of unent. These violations relate to the
Authorized Representative of Firm* Name JERRY J. THORPE	Authorized State Agent Name Amu Zimphd
Titlengr. Soleh femionment knownering	Signature
Date 4 Miss	Date 4719 840
*Signature of firm representative signifies receipt of copy	of this form
人名英克德斯 铁霉素 化二苯二甲二苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	

#### KEY TO GENERATOR CHECKLIST

A CHARLES AND THE COURSE OF THE PARTY OF THE

- ALL GEN Asterisks appearing in this column indicate those sections applying to all generators of hazardous waste (sections for which small quantity generation limit does not apply)
- 2. H & S Health and Safety Code, Division 20, Chapter 6.5
- CAC California Administrative Code, Title 22, Division 4, Chapter 30
- 4. 40 CFR Code of Pederal Regulations Part 40
- 5. Section Description see attached information for further explanation
- Cmt. See Comments page (attached to back of Generator Checklist if necessary)

****	SECTI	ON #		GENERATOR CHECKLIST	T	n Com	plian	ca?
All <sup>l</sup> Gen	H&S2	CAC3	40 CFR <sup>4</sup>	Section Description <sup>5</sup>	Yes		N/A	1 500
				HAZARDOUS WASTE DETERMINATION				
*		66505 (a,b)	262 .11	Hazardous waste determination made for all waste	X			
		,						
				HAZARDOUS WASTE FACILITY				
*.	25123 .3	66370	262.34 .(a)(1)	Generator does not store waste on-site for more than 90 days	X			
*	·	66370		Generator does not treat weste on-site See Comment Warrance		X		X
*		66370		Generator does not dispose of waste on-site	X			
				" " " Veceive off-site wask	X	1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		
				EPA IDENTIFICATION NUMBER				
			262 .12	Generator has EPA I.D. # (See Face Sheet)	X	- No	. <b></b> 12	
							24/	
				Hanifest				2
A .		66470	262 .20	Applicable sections accurately completed for all waste transported off-site	X		Ж:	
*		66475 (a-f)	262 .21 6 .23	The following is on all manifests:		195		
	•			Manifest document number	X			
				Name, mailing address, phone #, EPA ID # of Generator	X			
				Name, EPA ID f of Transporter(s)	χ		1. Eq.	
				Name, address, EPA ID f of designated/alternative Yacility	X			
				DOT description of warte(s) X	X.			12
			,	Total quantity of wastes(s) and type/f containers	X			A
				Certification statement/Required signatures	X			

All! Gen !	H&S2	CAC <sup>3</sup>	40	GENERATOR CHECKLIST			GENERATOR CHECKLIST		n Com		
		Trycz	CFR4		Yes		N/A				
				MANIFEST (continued)							
			262 . 22	Copies of manifest available for review	X						
*	¥ .	6647 <b>5</b>		Properly completed copies submitted monthly to DOHS	X	g .					
		1,84	262 .42(a)	Status of TSD facility copy determined if not returned in 35 days	X						
	•		262 . 42(b)	Exception reports submitted to DOHS within 45 days	X						
				DEPOSITION OF WASTE			J. 2				
*		66505 (c)		Hazardoua waste taken only to a State approved facility	X		- 100 miles - 100 miles - 100 miles				
1								1			
				PHTREMETY HAYARDOUS WASTE		e des					
*		66570 (a,b)		Extremely hazardous waste nor handled/disposed of without permit	X						
*		66570 (11)		No deviation from DOHS approved handling/disposal methods	X						
	•			USE AND MANAGEMENT OF CONTAINERS							
			265 .171	Containers are in good condition	X			×			
*		66500 (c)	265 .172	Containers are compatible with waste in them	X						
			265 .173(a)	Containers are stored closed	X	**					
		1.0		Containers are managed to present leaks	X	100					
			265 .174	Containers are inspected weekly for leaks/defects	X						
			265 .176	Ignitable/reactive wastes stored 50'(15m) from facility property line	X						

SECTION #				GENERATOR CHECKLIST			Compliancel		
	H6S2	CAC3	CFR <sup>4</sup>	Section Description <sup>5</sup>	Yes	No	N/A	Cat.6	
,				USE AND MANAGEMENT OF CONTAINERS (continued)					
*		66500 (b)	265 .176	Incompatibles are stored/protected in separate containers	X			X	
		·							
				TANKS					
			265 .192(b) 265	Stored waste does not cause corrosion, leakage, or premature failure	X				
·			.192(c)	Uncovered tanks have 2'(60cm) freeboard, dikes or other containment structures			X		
		1 1 1	265 .192(d)	Continuous feed systems have waste-feed cutoff	K			1 6.57 3 7	
			265 .193	Waste analysis done if substantially different waste is to be placed in tank	X				
			265 .194	Discharge control equipment, operating equipment, and waste level checked daily	×		(4)		
	·	·	265 .194	Construction materials of tank/containment area checked weekly	×			1	
			265 .197	At site closure, all hazardous waste, residues, and contaminated equipment will be properly disposed	×		1.0		
			265 .198 (a)(2)		X	7			
. %			265 .198(b)	NFPA buffer zone for tanks observed	x		1		
,		66500 (b)	265 . 199	Incompatibles are stored/protected in separate tanks	X				
,									
				PRE-TRANSPORT BEQUIREMENTS					
			262 ,30-33	Waste is packaged, labelled, and placarded according to 49 CFR (DDT)	N			X	
			262 .32(b)	Each container of 110G, or less, marked as follows:	X			X	
. (				EAZARDOUS WASTE-Pederal Law Pro- hibits Improper Disposal. If found, contact the nearest police or public safety authority					
			:	or the U.S. Environmental Protection. Agency.		in the second			
	1			Generator's Name and Address  Manifest Document Number			-)		

SECTION #				GENERATOR CHECKLIST			plian	607	
	H&S2	CAC3	CFR <sup>4</sup>	Section Description <sup>5</sup>	Yes	No	N/A	Cat.6	
				ACCUMULATION TIME					
<b>*</b> 5	25123 .3		262.34 (a)(1)	All waste moved off-site within 90 days of accumulation commencement to approved facility	X			X	
			262.34 (a)(2)	All waste is in properly managed tanks/containers	x		1, 2 m 2	1 (2.00) 10 <b>3</b> (1)	
			262.34 (a)(3)		У				] .
				TO ATATAC CAMPAGNAY PROGRAMMY	<u> </u>				
			265 .16	Personnel trained OTJ or in classroom within 6 months of employment (or as of 5/19/80)	×		3.4		
• 1.			265 .16	Training direction by person trained in hazardous waste management	×				
			265 .16	Training includes emergency response procedures and emergency equipment use	×	*	***		
			265 .16	Personnel training records include titles, job descripiton, dates/ type training	X				1
,			265 .17	Special training for ignitables, reactive, or incompatible waste: special handling no smoking signs, separation/protection from	X	1, 1			
				ignition source.					].
				PREPAREDNESS AND PREVENTION			1		1
)			265 .32	Appropriate communications/alarm systems	×				
	•		265	Appropriate firefighting, spill control, and decontamination equipment	X				1
			265 .32	Adequate water (or foam) supply for fire control	Х		, <b>v.</b>		]
			265 .33	Adequate testing/maintenance procedures for emergency equipment	×				
			265 .33	Emergency equipment maintained in operable condition	×				1
			265 .34	Immediate access to internal alarm systems	X				1
			265 .35	Adequate aisle space for unoistructed movement	<u> </u>				
					l'.				.

FIRM NAME: HP-SEMICONDUTTOR MICROWAVE CAT DOOG 11400' Page 5 of 6 . SECTION ! In Compliance? GENERATOR CHECKLIST All 40 H&S2 CAC3 CFR4 Gen N/A Section Description<sup>5</sup> Yes No Cat CONTINGENCY PLAN AND EMERGENCY PROCEDURES 265 . 37 Arrangements with local authorities/emergency response teams 265 .51 & 53 Generator has prepared contingency plan and maintains at site 265 Contingency plan specifies actions for personnel in case of fire, .51 explosion, unplanned releases 265 Names, addresses, phone f's of all qualified emergency coordinators . 52 265 .52 List of emergency equipment specifying location, description, X and capabilities 265 Evacuation plan (including signals, routes, and alternates) 52 265 Copies of contingency plan available at site and local emergency X 53 agencies quarterly up date 265 54 Contingency plan is amended whenever necessary 265 Emergency coordinator familiar with all aspects of site operating/ .55 emergency procedures 265 55 Emergency coordinator has authority to carry out contingency plan 265 If emergency (imminent/actual) has occurred, emergency coordinator has activated alarm/communications system notified appropriate State 56(a) If acutal emergency has occurred, emergency local authorities. 265 56(b) coordinator has identified character exact source, asount, extent, 265.56 If actual emergency has occurred, emergency coordinator has reported N determined health/environmental hazards and notified appropriate government officials. If actual emergency occurs, emergency coordinator takes all reasonable 265 measures necessary to stop streading .56(e) 265 .56(f) Equipment stopped during emergency monitored for intactness 265 Released waste/contaminated equipment properly treated; stored disposed & .56(0) 265 .56(h)Contaminated emergency equipment cleaned/incompatibles kept separate Notification of State, after "emergency", that site is in compliance 265 .56(1)with 265.56(h) All appropriate data (from emergencies) logged in operating record and submit report to State within 15 days of accident 265 .56(1)

SECTION #				GENERATOR CHECKLIST		n Com	plian	ce?
Alll Gen	H&S2	CAC3	40 CYR <sup>4</sup>	Section Description <sup>5</sup>	Yes	No	N/A	Cat.6
4. t.				RECORDKEEPING AND REPORTING			*	
			262 .40	Manifest, Annual Report, Exception Reports, and tests results retained at least 3 years	X			
			262 ,41	Submittal of Annual Report to DCMS (Effective for calendar year 1983)	X			
*	25342			Submittal of Annual Report to Board of Equalization	X			
•		·			*			
				INTERNATIONAL SHIPMENTS				
			262 .50(ъ)	Written notification to EPA Administrator for waste exportation	***		X	
			262 .50(b)	Obtained signature of foreign consignee re: delivery			X	
	V	1	262 .21	Manifest requirements met for hazardous waste exportation/importation	1		X	
				UNDERGROUND TANKS INFORMATIONAL SURVEY				
21.7				Does generator have underground tanks containing:	6.	X		X
				Hazardous materials?		X.	-	
<del></del>				Hazardous waste?		V	+	
				Does generator have leak detection system for underground tanks?		1	12	
	1 2						7 (* 1	
~~~		-	,					

The second of th

		and de la company	
81	NAME:	li.	P/Mic BWAJE /SEMICONDUCTOR CATONO1/400 Pere 1 of 1
	in Anto a	No. Company	A LINE COMPUTABLE CHI COMPUTATION CHI COMPUTATION
\$655	ection	40	
BAS	CAC	CFR	COMMENTS
	<b> </b>	ļ	
	66370		Hes requised variance/porw wwt.
	66435		DOT E8129 examption: Can use general classifications for ware houling.
			warre hauling.
	66500	26230	Container location - locked; Bused on Donise Tenjis
			Drevious Inspection and small amound of amend
			storage (10 drums /20dans) - building didnot appear
			full Condainer Storage O.K. 4/19/14 Usual Insperson
	:		storage (10 drums / podans) - building didnotappean full Container Storage O.K. 4/19/14 Usual Insperior Also, covered, instal existing building (see inspect
			report 10/02) will be out of use & Imonth.
			Covered, separated concrete storage bup will
			be used (an improvement over existing.)
	i en la compa	4.0	
	1.		All subsurface underground tanks are
2			All subsurface underground tanks are voulted and easily inspected.
			and the second of the second o
			The second of th
			The first of the transport of the second
	-		

# San Jose/Santa Clara Water Pollution Control Plant

OFFICE	USE	ONLY	
SIC 6			pa M
DATE RE	C'D.		

•		INDUSTRIAL WASTEWATER DIS	CHARGE APPLICATION	4/272474	OFFICE USE ONLY
				NA SERVER	SIC .
1.	T I - APPLICATION				DATE REC'D.
4	COMPANY Hewlet	t-Packard Company			PER BEC'D
		350 and 370* West Trimble Ri	and Can lote Ca	05121	
	ADDRESS OF DISCHA	mgz Same as Above		PHONE (4)	08) 263-7500
D.	INDIVIDUAL RESPON	SIBLE FOR WASTEWATER Jerry	Thorne		<u> </u>
	•	500 Ext. 2302		nonz Same	EXT. Same
c.		TIVITIES & PRODUCTS Manufac	toring, Assembly	eno lest c	T Dioges and
	PRODUCT VOLUME (L	AS./DAY)			
D.		e (ip seasonal, explain on i			1
- 🖷	SHIFT #1 Flexible	Hrs. SHIPT 02 Flexible Hrs	BHIFT 03 Flexible	Hrs.	
		ES: (see also Section O)			
••	MUNDER OF BUILDIE				
	WEEKDAYS	SHIFT #1 SHIFT #2		FFICE	
	SATURDAYS	<del>20</del> <del>140</del> 15	<u>33</u> 15	Included in	Shift #1
	SUNDAYS	20 15	15		• •
•	HO OF BO PP. OF	PICE SPACE 124,500 NO.		TOTAC /ARCENE	TV #8100 169 700
	NO. OF SQ. PT. WA	STEWATER-GENERATING SPACE	13.900 707	u, no. sq. y	T374.200
T.	PLEASE GIVE AVE	bldg. support 86,000 sq.	TE. SED IN GALLONS OR	POUNDS/NONE	Dife.
	Stored Used			-	
		. Hydrochloric (Muriatic)	Stored Used	Organic So:	(Menta
	230	Rydrofluoric	1000	Alcohols	
	1150	Nitrie	750	Chlorinate	d Hydrocarbons
	250 *	Sulfuric	20	Xetones	•
	70	Other (specify) Acetic		Petroleum	
	<u> 100 °</u>	Phosphoric Fluoboric			ange gevous ougher gevoe the second of
	60 *	Alkalies Ammonium Fluoride		Other (spe	eifv)
	60 *	#mponia ammonium hyrdoxide		V (15g)	
	2000 lbs	Calcium Hydroxide			
	2000	(Hydrated Lime)		Other Organ	ics
	7200 ga.	, Sodium Hydroxide (Caustic Soda)		Aldehydes	
		Other (specify)	.——	Algaecides Formaldehy	the contract of the contract o
	45_ga.			Merbicide	
٠.		Metals and their compounds		Pesticide	
	·	Antimony		Phenols (	otal stripper usage
		Barium Beryllium		Surfactant Other (spe	strippers contain
		Cadmium		October (Spe	of Phenol)
		Chronium		Misc. Chemi	
		Copper		Boron	
		Lead		Chlorine -	and the second control of the second control
	7.76	Hanganese Hercury			
i,	D	Nickel		Dyes Fluorides	
		Selenium	300_ga		
		Silver		Sulfides	
		Zinc Other (specify)		Other (spe	•
	150 lbs			s <u>_Potassiu</u>	n Ferricyanide
	50 1bs			Dela	rence # 22
				<b>D</b> C10.	INCO TILE

G.	PLEASE PLACE A CHECK BESIDE ANY OF THE PRICE POLLUTANTS) WHICH ARE RITHER USED IN YOUR PR STORED ON YOUR PREMISES:	
	Acenaphthene® Acrolein® Acrylonitrile®	Dichloroethylenes* (1,1-dichloro- ethylene and 1,2-dichloroethylene)
	Benzidine*	1,1-dichloroehtylene 1,2-trans-dichloroethylene
		2,4-dichlorophenol*  Dichloropropane and dichloropropene*
	Chlorinated benezenes* (other than dichloro- bensenes):	1,2-dichloropropane 1,3-dichloropropylene (1,3-dichloropropylene)
	Chlorobenezene 1,2,4-trichlorobensene Bezachlorobensene	2.4-dimethylphenol* Dinitrotoluene*
	Chlorinated ethanes* (including 1,2-dichloro- ethane, 1,1,1-trichl-	2,4-dinitrotoluene 2,6-dinitrotoluene
	oroethane and hexa- chloroethane):	1,2-diphenylhydrazine*  Ethylbenzene*  Fluoranthene*
	1,2-dichloroethane X 1,1,1-trichloroethane Bexachloroethane	Haloethers* (other than those listed elsewhere):
	1,1-dichloroethane 1,1,2-trichloroethane 1,1,2,2-tetrachloroethane Chloroethane	4-chlorophenyl phenyl ether 4-bromophenyl phenyl ether Bis(2-chloroisoprophyl) ether Bis(2-chloroethyoxy) methane
	Chloroalkyl ethers (chloro-* methyl, chloroethyl, and mixed ethers):	Halomethanes* (other than those listed elsewhere):  Y Methylene chloride (dichloromethane)
	Bis(chloromethyl) ether Bis(2-chloroehtyl) ether 2-chloroehtyl vinyl ether (mixed) Chlorinated naphtalene*	Methyl chloride (chloromethane)  Methyl bromide (bromomethane)  Y Bromoform (tribromomethane)  Dichlorobromomethane  Trichlorofluoromethane
•	2-chloronaphthalene	Dichlorodifluoromethane Chlorodibromomethane
•	Chlorinated phenols* (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols)	Hexachlorobutadiene*  Hexachlorocyclopentadiene*  Isophorone*  Naphthalene*
	2,4,6-trichlorophenol Parachlorometa cresol	Mitrophenols* (including 2,4-dini-
	Chloroform (trichloromethane) * 2-chlorophenol*	trophenol and dinitrocresol):  2-nitrophenol
:	<u>Dichlorobenzenes</u>	4-nitrophenol 2,4-dinitrophenol*
	1,2-dichlorobensene 1,3-dichlorobensene 1,4-dichlorobensene	4,6-dinitro-o-cresol
	<u>Dichlorobenzidine*</u> 3,3'-dichlorobenzidine	*Specific compounds and chemical classes as listed in the Consent Decree

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# ATTACHMENT

All of the Information in this report includes estimated data for 370 West Tribmle Road (HP bldg. 91), which is currently under construction. Occupancy of this building should begin between Mid-1983 and early 1984.

- Storage will vary considerably. All chemicals are used in small laboratory quantities. No bulk storage tanks. The quantities of the most commonly used chemicals on hand during a recent chemical survey are indicated on the attached.
- Many cheimcal mixtures such as photoresist, strippers, ect. contain organic solvents.

Bitrossines The State of the St	
W-nitrosodimethylamine W-nitrosodimenylamine	b-endosulfan-Beta
W-nitresodi-e-propylamine	Endosulfan sulfate
Pentschlorophenol*	Endrin & Metabolites*
PhenoI = (small quantity in some photo-	Endrin
· Phthalate esters	Endrin aldehyde
· Bis(2-3thylhexyl) phthalate	Reptachlor & Metabolites*
Butyl benzyl phthalate	Beptachlor
Di-n-butyl phthalate	Heptachlor epoxide
Di-n-octyl phthalate	Bexachlorocyclohexane (all isomers)
Diethyl phthelate	a-BHC-Alpha
Dimethyl phthalate	b-BHC-Beta
Polynuclear aromatic hydra-	r-BHC (lindane)-Gamma
carbons •	g-BHC-Delta •
Benzo(a)anthracene (1,2-ben-	Polychlorinated biphenyls (PCB's)
Santhracene) Senzo(a)pyrene (3,4-benso-	PCB-1242 (Arochlor 1242)
pyrene)	PCB-1254 (Arochlor 1254)
3,4-benzofluoranthene	PCB-1221 (Arochlor 1221)
Benzo (k) fluorenthane (11,12-	PCB-1232 (Arochlor 1232) PCB-1248 (Arochlor 1248)
benzofluorasthene)	PCB-1260 (Arochlor 1260)
ChryweneAcensphthylene	PCB-1016 (Arochlor 1016)
Anthracene	Toxaphene*
Benzadghi)perylene (1,12-	Antimony (Total)
benacperylene)	Arsenic* (Total)
Pluorene Phenathrene	Asbestos* (Fibrous) Beryllium* (Total)
Diberzo (a.k. anthracene	Cadmium* (Total)
(1,2,5,6-dibensanthra-	Chromium* (Total)
Cene)	Copper* (Total)
Indemo (1,2,3-cd)pyrene (2,3-0-phemylenepyrene)	Cyanide* (Total)
Pyrane	Y Mercury* (Total)
	Mickel* (Total)
Tetrachlorsethylene*	Selenium* (Total)
Trichloroethylene*	Silver* (Total) Thallium* (Total) Zinc* (Total)
Vinyl chloride* (chloro-	Thallium* (Total)
ehtylene)	2,3,7,8-tetrachlorodibenzo-p-dioxim
esticides and Metabolites:	(7CDD)***
Aldrin* Dieldrin*	*Specific compounds and chemical classes
Chlordane* (technical	as listed in the Consent Decree.
mixture & metabolites)	***This compound was specifically listed
DDT & Metabolites*	in the Consent Decree. Because of
4.4*-DDT	the extreme toxicity (TCDD), we are
4,4*-DOE (p,p'-DOX)	recommending that laboratories <u>NOT</u> acquire analytical standard for this
4,4"-DDD (p,p'-TDE)	compound.

WATER ACCOUNT AND	o/or well wunder(s) 2	140-0800-09
	DISCHARGE (ATTACH WATER BI	ILS OR EPPLUENT CHARTS):
(sée also Section	n O) Used	Discharged
Annual De	ily Average 264.32	· · · · · · · · · · · · · · · · · · ·
	th, Average 345.96	
	h, Average 198.43	
Cooling W		
Recircu		
Storm I	rged after 1 pass 3.45 Drain 5.76	
CHARACTERISTICS C		O SEWERS PRIOR TO PRETREATMENT (check those that apply)
	Flammable	Particles larger than 3/
<u> </u>	Toxic Substances sanit	ary X Suspended Solids
A	Acidic, pH <6.0 waste Caustic, pH >10.0	X Biochemical Oxygen Demas
	Heavy Metals	Grease
	Solvents	Mashdown or Clean up Wat
<del></del>	Petroleum-based oils	Temperature over 150°F
	Water-soluble (emul-	Other (specify)
X	sified) oils	
	Unpolluted Water	
<del></del>	Rainwater or Dilution Water	
	Blowdown or Bleed Wate	
CHECK WHICH OF TH	E POLLOWING PRETREATMENT	SYSTEMS ARE USED:
Clar	rifier or Interceptor	y Solvent Separation
	en, Filter	X Spill Protection
	rifuge	Rainwater Diversion
Cyc.		Grinder, Hammermill, Dispose
	: Removal	Air Plotation
صفينا سائد السائد السائ	nse or Oil Removal	Flow Equalization X Export or Hauling
	logical Treatment	Other (specify)
	Control	
warer of samplin	G/MONITORING LOCATIONS	One
DESCRIBE YOUR SPI	LL PREVENTION CONTROL & C	OUNTERMEASURE PLAN: (include attachments
as necessary)		
See enclosed	emergency response proced	ures.
	•	
•	·	

DESCRIPTION OF AMOUNT	SS OR OPERA	rimble Rd.) Tion producing Wa	EPITaxial Manufactur	ing
BRIST CHARACTERIZATI	OH OF 10.577			
			l, acetone, n-butyl acetate	
ANGICAL WASTE PRODUCT	704	2005 Oct 12	no car dia	
			OCCASIONAL X CONTINU	i de la companya de l
PREQUENCY OF WASTE P.	,	OTHER (SPEC		
		OTHER (SPEC	LE 87	
	· · · · · · · · · · · · · · · · · · ·			<u>i</u>
PASTE COMPOSITION:	· · ·	•		• .
VERAGE PERCENT SOLID				
MITSICAL STATE: X				
		(PY)		
BAZARDOUS PROPERTIES (	X WASTE:		TOXIC REACTIVE	
			CORROSIVE	
		OTHER (SPECIFY	)	
PRANSPORTATION:	•		and the state of t	•
easte nauled opp-site	BY:Y	X OTHERS		
DAY & LIC. NO. OF	Solvent S	ervice. Inc.		
aste hauler	1021 Berr	yessa Rd.	San Jose	
	Street Calif	05122	(408) 286-6446	
•	State	Sip Code	Phone	
REATHERT AND DISPOSAL	<u>L</u> e	and the second s		
PREATHENT OR DISPOSAL	OH 87	TE		
ASTE IS: RECLAIM	œ	EATED LAND	DISPOSEDINCINERATED	
OTHER	(SPECIFY)			
PF-SITE PACILITY REC	LIVING WASTE	te .		
	Solvent S	ervice Company		
MANE OF PACILITY_	Solvent S	ervice Company		
HAME OF PACILITY_ PACILITY OPERATOR				
		yessa Rd.	San Jose	
PACILITY OPERATOR	1021 Berr		City	•
PACILITY OPERATOR	1021 Berr	yessa Rd. 95133 Eip Code		•
PACILITY OPERATOR PACILITY LOCATION	1021 Berr Street Calif. State	95133 £ip Code	City (408) 286-6446	autoriane (a.c.)
PACILITY OPERATOR  PACILITY LOCATION  W-SITE STORAGE FOR G	1021 Berr Street Calif. State	95133 Sip Code 90 DAYS:	City (408) 286-6446 Phone	andreal (
PACILITY OPERATOR  PACILITY LOCATION  W-SITE STORAGE FOR GI ETHOD:DRUM	1021 Berr Street Calif. State	95]33 Sip Code 90 DAYS: CONTAINER	City (408) 286-6446 Phone	
PACILITY OPERATOR  PACILITY LOCATION  W-SITE STORAGE FOR GI ETHOD:DRUM	1021 Berr Street Calif. State MEATER THAN BOLL-OFF PECIFY)	95133 Sip Code 90 DAYS: CONTAINERT	City (408) 286-6446 Phone	
PACILITY OPERATOR  PACILITY LOCATION  W-SITE STORAGE FOR GI  ETHOD:OTHER (SI	1021 Berr Street Calif. State MEATER THAN POLL-OFF PECIFY)	95]33 Sip Code 90 DAYS: CONTAINERT	City (408) 286-6446 Phone  ANXLAGOOM	

Miscellaneous de  arter CHARACTERIZAT  1, 1, 1, Trichlore		operations	
	TOM OF 100		
		rese Malananada	
• • • • • • • • • • • • • • • • • • • •			DIVERTS - FrenUS (TF. TMC)
	VE LIJANE		
AMBIUAL WASTE PRODUC	TION:	TONS/YR.	12,000 GAL./YR.
PREQUENCY OF WASTE	PRODUCTION	I: SEASONAL	CCCASIONAL X CONTINUAL
		OTHER (SPEC	
And the second second			
WASTE COMPOSITION			
AVERAGE PERCENT SOLIC	· ·	A -A BANCY E	
PHYSICAL STATE: X		· · · · · · · · · · · · · · · · · · ·	
			SOLAD TO THE PROPERTY OF
· · · · · · · · · · · · · · · · · · ·	="	ECIPY)	
MAZARDOUS PROPERTIES	OF WASTE:		TOXIC REACTIVE
		EXPLOSIVE	IMPECTIOUSCORROSIVE
		OTHER (SPECIFI	Y)
TRANSPORTATION:			
WASTE MAULED OFF-SITE	BY:	YOU X OTHERS	
MAME & LIC. NO. OF			
		ryessa Rd.	San Jose
	Street		City
•	Calif.	95133	City 408 ) 286-6446
	State	Sip Code	Phone .
TREATHENT AND DISPOSAL		್ ಪಹಾಗಾಗ್ ಸ್ಥಾನಕ್ ಚಿಕ್ಕಾರ ಸಾವಿಶ್ವವಾಗಿ ಕೊಟ್ಟಿ	i neronomia i sementro de la comencia de comencia de la comencia de la comencia de la comencia de la comencia La comencia de la co
PREATHENT OR DISPOSAL		SITE Y OFF SITE	
haste is: X reclaid	(E)	TREATED LAND	DISPOSEDINCINERATED
OTHER	(SPECIFY)_		
PF-SITE PACILITY RECE	eiving was	TE:	
NAME OF PACILITY_	Solvent	Service Company	
		Service Company	
		rrvessa Rd.	
	Street		
· · · · · · · · · · · · · · · · · · ·	_Calif_		(408) 256-6446
•	State	Eip Code	Phone
M-SITE STORAGE FOR GR		•	
ETHOD: DRUM			ANXLAGOON
OTHER (SP	ECIFY)		

O. POR THOSE PROCESSES CITY OR STORM SEMER POR EACH WASTE STRE	is or to Burly	CE VATERS, COMPLI	ers: was poli	LOWING (USC SEPARATE )
MASTE STHEAM NO.  DESCRIPTION OF PROC. Photoresist remove	ESS OR OPERAT	rimble Rd HP	. T.	
BRIST CHARACTERIZAT . Stripper - J100,				
AMBIUAL WASTE PRODUC	·			
PREQUENCY OF WASTE	PRODUCTION: _	BEASONAL	OCCALION	L Y CONTINUAL
	: •••	OTHER (SPEC	(FF))	
P. WASTE COMPOSITION:				
AVERAGE PERCENT SOLIS		on names < 2		
PHYSICAL STATE: X				arto
		PY)		
BAZAROOUS PROPERTIES	<del></del>		TOXIC	BEACTIVE
	-			S X CORROSTVE
	-	OTHER (SPECIFY		· ·
(A TRANSPORTATION:				
WASTE MAULED OFF-SITE	Dy: You	X OTHERS		
MANE & LIC. NO. OF			ration	
WASTE MAULER	3010 Zanke	r Rd.	San Jos	e
	Street	95131	CLEV	
· · · · · · · · · · · · · · · · · · ·	State		2 thou	
R. TREATHENT AND DISPOSA		See	The matters of	- The period of the same and the same
TREATHENT OR DISPOSAL	L: OH SI	E X OFF SITE	<b>.</b>	
WASTE IS:RECLAI	DED TR	ATED X LAND	DIMPOSED	INCIMERATED
	(SPECIFY)		smildifica	tion
OFF-SITE PACILITY REC				
MANE OF PACILITY_	Kettleman	Hills	Programme and the second	
<del></del>	Chamian 1 1			
PACILITY OPERATOR	<u>Liemical</u>	<u>laste Management</u>	Inc.	
				alinga
PACILITY OPERATOR  PACILITY LOCATION	P.O. Rox ]	1104 - 430 W. Fl	n Alve. Co	A4 6.4
	P.O. Rox 1 Street Calif		n Ave. Co	
	P.O. Rox ] Street Calif State	93210 Sip Code	n Aive Co	609) 935-2043
PACILITY LOCATION	P.O. Rox ] Street Calif State GREATER THAN 1	93210 Sip Code	n Ave. Co	£09 ) 935-2043 Phone
PACILITY LOCATION  8. CH-SITE STORAGE POR G  METHOD:DRIN	P.O. Rox 1 Street Calif State GREATER THAN 9 BOLL-OFF C	93210 Sip Code	n Ave. Co	£09 ) 935-2043 Phone
PACILITY LOCATION  8. CH-SITE STORAGE POR G  METHOD:DRIN	P.O. Rox ] Street Calif State GREATER THAN 9ROLL-OFF C	93210 Sip Code NO DAYS:	n Ave. Co	(16y ) 935-2043 Phone
PACILITY LOCATION  8. CM-SITE STORAGE POR G  METHOD:DRUN  OTHER (S	P.O. ROX   Street Calif State SMEATER THAN 1	93210 Sip Code DO DAYS: CONTAINER	n Ave. Co	Phone  MOONTHS
PACILITY LOCATION  S. CH-SITE STORAGE POR G  METHOD: DRUM  OTHER (S  TYPICAL LENGTH OF TIME	P.O. ROX ] Street Calif State GREATER THAN !ROLL-OFF C SPECIFY) GE WASTE STORED:	93210 Sip Code DAYS:  CONTAINER  Do	n Ave. Co	Phone  MOONTHS

v.	POR THOSE PROCESSES CITY OR STORM SEMERAL POR EACH MASTE STREA	OR TO SURF	ACE WATERS, COM	PLETE THE FO	LOWING (	SE SEPARATE PORM
i e	Waste Stream No		Triphle Rd	- HP Bldg.	11	
•	DESCRIPTION OF PROCE					
	Material Growth					
	rigited for different				•	
	BRIST CHARACTERIZATI					
	. Bolid waste with 1	% arsenic				
	AMBUAL WASTE PRODUCT	704.	Grate Ara	. ·	N. 772	
	PREQUENCY OF WASTE 1					
, p	SARANGE OF MARKET	ALLUCTION!	OTHER (SP			
٠. ٠			OTHER (BY			
				$e^{-\frac{\lambda}{2}} = e^{-\frac{\lambda}{2}} = e^{-\frac{\lambda}{2}}$		A STATE OF THE STA
	MASTE COMPOSITION:		*			
	AVERAGE PENCENT SOLID		-			
	PHYSICAL STATE:			Y	POLUTO .	
		OTHER (SPECI	<u> </u>	·		
	MAZARDOUS PROPERTIES	OF WASTE!	•			
		•	EXPLOSIVE		~ ·	COMMO IAE
	e de la companya del companya de la companya del companya de la co	•	OTHER (SPEC	LFT)		
	TRANSPORTATION:		· · · · · · · · · · · · · · · · · · ·			Andrew Commencer
	WASTE MAULED OFF-SITE				*	
	MANE & LIC. NO. OF WASTE MAULER				Jose	
	•	Street	ker Rd.	Cit	y	
			95131 Sip Code	(4)	18 263-72	50
•	TREATHERT AND DISPOSA		The second second	er i kwa kazini na sa	e samengarye i sette	Bulk Caller Commence of Compared Spirit
	TREATHERT OR DISPOSAL		THE X COPP ET	17R		
	WASTE IS: RECLAI				INCT	(ERATED
		-				
	OFF-SITE PACILITY REC	-				
	MAKE OF PACILITY	-	• •			
	FACILITY OPERATOR			ent, Inc.		
	FACILITY LOCATION			Coali	nga	
		Street			City	035 2042
		Calif.	9321( Zip Code		(209) Phone	935-2043
B. 1	ON-SITE STORAGE FOR G			in the second second		and the second s
			CONTAINER	TAKK	LAGOOM	
•		PECIFY)				ത്രം വരു വരു വരു ത്രായായ് ഇത് വേള വരു
1	TYPICAL LENGTH OF TIM			WEEKS	MONT	88
	TYPICAL VOLUME OF WAS				LLONS	
	IS STORAGE SITE DIKED					and the state of the
				and the second of		ing kanang kalang at pangang katang at pangang kanang kanang kanang kanang kanang kanang kanang kanang kanang

		引力 智 もっとし いりりょうしんかん かめ			
O. POR IDEAS T OCC.	TO THE TAX BELL	MS WHICH PRODU	CR WASTES WA	ARE NOT D	TECHARGED IN
FOR EACH WASTE S	fream):				ecpanate for
Maste Piream No.	5 (370 W	_Trimble Rd.	- HP B1dg. 9		
DESCRIPTION OF PA	NOCESS OR OPEN	TION PRODUCING	WASTE		
Epitaxial growt	h - lapping				
				• .	, a .
BRIST CHARACTERIS					
• Potassium ferri	cyanice				
AMBRUAL WASTE PROP	OUCTION: 2	TONS/YA.	G	AL. MR.	
PREQUENCY OF WAS				*	neringa.
			PECIFY)		<u> </u>
P. WASTE COMPOSITION:				in ing militaria.	
AVERAGE PERCENT SO					
PHYSICAL STATE:					•
	OTHER (SPEC			BOUND	
MAZARDOUS PROPERTI			Y		
	to or moth:	EXPLOSIVE			
					OSIVE
	•	OTHER (SPEC			
( TRANSPORTATION:		OTHER (SPEC	TIFY)		
WASTE BAULED OFF-8	-	OTHER (SPEC	TFY)		
	I.J. Iran	OTHER (SPEC	rporation		
WASTE BAULED OFF-S. MANE & LIC. NO. OF	I.J. Iran	OTHER (SPEC	rporation San J	ose	
WASTE BAULED OFF-S. MANE & LIC. NO. OF	1.T. Tran 3010 Zank Street Calif	OTHER (SPEC X X OTHERS sportation Cor er Rd.	rporation San J	ose y 80 263-7250	
WASTE BAULED OFF-S. MANE & LIC. NO. OF WASTE BAULER	3010 Zank Street Calif State	OTHER (SPEC	rporation San J	ose y 80 263-7250	
WASTE BAULED OFF-S.  WASTE BAULER  R. TREATHERT AND DISPO	3010 Zank Street Falif State	OTHER (SPEC X X OTHERS sportstion Cor er Rd. (5131 Sip Code	rporation San J Cit (40	ose y 80 263-7250	
WASTE HAULED OFF-S.  HAVE & LIC. NO. OF WASTE HAULER  R. TREATMENT AND DISPONDED TREATMENT OR DISPONDED	J.T. Tran  3010 Zank Street Calif State DEAL: CM SI	OTHER (SPEC	rporation San J Cit (40 Pho	ose y 180 263-725(	
WASTE BAULED OFF-S.  BAME & LIC. NO. OF WASTE BAULER  R. TREATMENT AND DISPONDANCE OR DISPONDANC	J.T. Tran  3010 Zank Street Calif State  SAL: CM SI  ANNED TR	OTHER (SPEC	rporation San J Cit (40 Pho	ose y 180 263-725(	
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			TION PRODUCING WA		
			fabrication prod		
BRIE	CHARACTERIZA	TION OF WASTE	Mixed solvent	waste - isopr	opyl alcohol,
		roethane. Iri	chlornethylene.	Acetone. Metha	nol. Bulyl Acetat
017	AT MARTE PRODU	Y-77 000 ·	TOUS/YR	s non GN.	YR.
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WASTE STREAM NO.	7 (350 W. T	rimble Rd H	P B1dg. 90)	
DESCRIPTION OF PROC				
Photoresist remova				
Christian Tradita				
BRIST CHARACTERIZAT	TION OF WASTE			
Strippers - J100,	7120, Micros	trip		
1				
AMBUAL MASTE PRODUC	<u> </u>			* ** · · · · ·
PREQUENCY OF WASTE	PRODUCTION:	• • • • • • • • • • • • • • • • • • • •		
		OTHER (ST	CITY)	
		en e		
PASTE COMPOSITION:		er <sub>andre</sub> Merchanism in the Communication of the C		A Communication of the Communi
Verage Percent Boli	D6 <u> </u>	PH RANGE	2 20	
MYSICAL STATE: 1			LUDGEBOL	
	_OTHER (SPEC	ZPY)		
VAZARDOUS PROPERTIES				REACTIVE
		EXPLOSIVE	INFECTIOUS	
***		OTHER (SPECI	TX)	
TRANSPORTATION:				
MASTE MAULED OFF-SIT	E BY: Y	OU X OTHERS		
INE & LIC. NO. OF	I.T. Trans	sportation Corp	oration	
uaste nauler	3010 Zanke	er Rd.	San Jose	
•	Street	95131	City	062 7050
	State	Sip Code	Phone	263-7250
REATHENT AND DISPOS	AL:			
NEATHENT OR DISPOSA	L:OM S	172 X OFF 81	<b>73</b>	
ASTE IS:RECLA		REATED X LAN	D DISPOSED	INCINERATED
OTHER	(SPECIFY)	aft	er solidificati	on
FF-SITE FACILITY RE	CEIVING WAST	E:		
MANE OF PACILITY	Kettleman	Hills		
FACILITY OPERATO			t. Inc.	
PACILITY LOCATIO				
	Street			ity
	Calif	93210 Sip Code		(209) 935-2043
W-SITE STORAGE FOR		. •		
ETHOD: DRUM		•	TANK LAG	The field of Marchester of the east of the
	SPECIFY)			
	/	<del>- , </del>		
YPICAL LENGTH OF TI	HE MACRE STA	PPD. NAVE	WEEKS	MONTHS

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0.	. FOR THOSE PROCESSES OF EXATIONS WHICH PRODUCE WASTES WE IN ARE NOT DISCHARGED INTO CITY OR STORM SENERS OR TO SURFACE WATERS, COMPLETE THE FOLLOWING (USE SEPARATE FORM FOR EACH WASTE STREAM):
:	WASTE STREAM NO. 8 (350 & 370 W. Trimble Rd HP Bldgs. 90 & 91)
	DESCRIPTION OF PROCESS OR OPERATION PRODUCING WASTE
	Semiconductor wafer fabrication
	BRISF CHARACTERIZATION OF WASTE
	- Miscellaneous laboratory waste (see enclosed 198) annual report)
	AMBUAL WASTE PRODUCTION: 2.5 TONS/YR. GAL./YR.
	PPEQUENCY OF WASTE PRODUCTION:SEASONALOCCASIONALX_CONTINUAL
	OTHER (SPECIFY)
▶.	MASTE COMPOSITION: (See enclosed 1981 annual report)
	AVERAGE PERCENT SOLIDS & pH RANGETO
	PHYSICAL STATE: LIQUID SLURRY SLUBGE SOLID
	OTHER (SPECIFY)
	MAZARDOUS PROPERTIES OF MASTE: FLANHABLE TOXIC REACTIVE
	EXPLOSIVE INFECTIOUS CORNOSIVE
	OTHER (SPECIFY)
Ç	TRANSPORTATION:
-	WASTE BAULED OFF-SITE BY: YOU X OTHERS
	MANZ & LIC. NO. OF 1.T. Transportation Corporation
	MASTE MAULER  3010 Zanker Rd. San Jose
	Street City
	Calif. 95131 #08) 263-7250  State Sip Code Phone
R.	TREATMENT AND DISPOSAL:
-	TREATMENT OR DISPOSAL:ON SITEX OFF SITE
	WASTE IS: RECLAIMED TREATED X LAND DISPOSED INCIMERATED
	OTHER (SPECIFY)
	OFF-SITE FACILITY RECEIVING WASTE:
	MANE OF FACILITY Kettleman Hills
	PACILITY OPERATOR Chemical Vaste Management. Inc.
× 4.	FACILITY LOCATION 430 W. E]m St. Coalinga City
	Calif 93210 (209) 935-2043 State Sip Code Phone
<b>s.</b>	ON-SITE STORAGE FOR GREATER THAN 90 DAYS:
	NETHOD:DRIMROLL-OFF CONTAINERTANKLAGOON
	OTHER (SPECIFY)
	TYPICAL LENGTH OF TIME WASTE STORED: DAYS WEEKS MONTHS
	TYPICAL VOLUME OF WASTE STORED:TONSGALLONS
	IS STORAGE SITE DIKED?YESNO
	SURFACE DEATRAGE COLLECTION?YESNO

gr 5. 85

copy of "Industrial Wastewater Questionnaire" which was provided to you on February 13, 1931. Enclosures:  1. Our check in the amount of \$500 to cover required fee.		
U. USE THE POLICIANG SPACE FOR ANY FURTHER EXPLANATIONS THAT MAY BE MECESSARY:  This report includes anticipated data for 370 M. Trimble Rd. (HP Bldg. 91), which is currently under contruction. Occupancy and start up process for this building will not begin until mid-1983 or early 1984. For current operating information, see your copy of "Industrial Wastewater Questionnaire" which was provided to you on February 13, 1931. Enclosures:  1. Our check in the amount of \$500 to cover required fee.  2. Inventory of most commonly used chemicals at 350 M. Trimble Rd. (HP Bldg. 9 with amounts on hand during survey.  3. Chemical products inventory (current) of all chemicals on hand at 350 M. Trimble Rd. (HP Bldg. 90).  4. Copy of current Emergency Response procedures.  5. 1981 Annual Report for 350 M. Trimble Rd. (HP Bldg. 90)  6. Required drawings for 370 M. Trimble Rd. (HP Bldg. 91)  The information contained in this Questionnaire is familiar to me and, to the best of my knowledge and belief, accurate and complete.  Prepared by:  Manage Saft denumber of 1382 me and 1	<b>T.</b>	
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		Prepared by: Vkry 1,1 war Mana 1,3 90 4 Date 9/13/8-

Hewlett Packard Co. 360 - 370 W. Trimble Rd. San Jose, CA 95131

PERMIT NO. SJ-003A EFFECTIVE DATE Oct 3 1982 EXPIRATION DATE Oct. 3, 1985

A. SELF-MONITORING REQUIREM	FIFT.

- 1. EQUIPMENT REQUIRED Time proportional automatic sampler 5 gal capacity
- Semi-annual test for fluoride, phenol, arsenic 2. TESTING REQUIRED and 96-hour TLm an 8-hour composite sampler (8am - 4pm)
- TIMETABLE OF COMPLIANCE ANY DEVIATION FROM THE WASTEWATER STRENGTH OR CONDITIONS BET FORTH HEREIN MAY RESULT IN TERMINATION OF PERMIT.

Limiting	Unit of			Maximum		able Di	scharge	
Constituent	Measurement .	Present	Date	Dis.	· Date	Dis.	Date	Dis.
Cedmium	mg/L							
Chromium	mg/L							
Copper	mg/L							
Lead	mg/L '							
Mickel	mq/L					<b> </b>		
Zinc	mg/L						<u> </u>	
Cyanide	mg/L	1.0						
Fluoride	mg/L	10.0						
Silver	mg/L	1.0						
TLE	•	50						
Phenol	mq/L	30					•	

Results of tests required under A-2 due July C. REPORTING REQUIREMENTS:

and December of each year.

Report any significant change in flow or wastewater D. OTHER REQUIREMENTS: Report all accidental discharges as requires under characteristics. San Jose Municipal Code section 15.12.140

ALL PERMITS ARE SUBJECT TO THE ABOVE CONDITIONS. ANY SUBSTANTIAL CHANGE IN QUANTITY OR QUALITY OF DISCHARGE AS REPORTED IN THE PERMIT APPLICATION(S) MUST BE REPORTED. IN THE EVENT OF SUCH CHANGE, A NEW APPLICATION MAY BE REQUIRED.

r.	ACTENCY APPROVAL	1.0.1. 7.	-101. 4.0 . 7-	10-2-27	
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DATE Director of Water Pollution Control 12-22-82

DATE

E. SPECIAL CONDITIONS

ATTACHMENT A2 WEST ENTRANCE MAIN ENTRANCE AOAD FUTURE OF EXPANSION HEWLETT-PACKARD CO. SITE PLAN

M.S.D. DIVISION

HEWLETT PACKAR CORPORATE ENVIRONHE ATTACHMENT A3 NEE 2 ENTROVENTAL BEFORT · JANUARY 1983 1941 JULE 113. FACELITY 175 LIMIT 11/14 SHPLE MIE .QA Q COP. 1 6-24 11 8.4 13.1-11.51 iali IZON ABOVE 120H MILES MANETER; NEAL 1 1.2 LUCION IMPOULA 1 5.5 (0.018 1 1.0 MEDIC INCRYLLINE (0.10 1 1.6 CABILLIN (8.418 1 8.7 CHROKISK SEX. I WA (8.858 | 1.8 CHRONIUM TOTAL 8.13 1 2.7 COPPER (8.850 | 1.0 ICYANISES TOTAL 1 3.3 1 19.0 IFLUORINES. -INO (0.11 1 (8.658 | 8.4 ILEAD (0.18 | 0.5 INNCHESE (0.18 1 2.6 MOTEL (8.18 | 30.8 IPIEDELS IPHOSPHORUS E/A (8.854 1 8.7 ISTLUER (1.25 ITI ISUSP. SELIDS

\*\*LIMIT EXCESSED THE CONSECUTIVE MINING

ZINC

LABORATORY BANGES

(8.18 1 2.6

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# REQUEST FOR HAZARDOUS WASTE FACILITY PERHIT VARIANCE California Department of Health Services Besardous Waste Management Branch Hazardous Waste Management Branch

I would like to request a variance from the Hazardous Waste Facility Permit requirements of the California State Department of Health Services.

		400		variance for the fo		*
•	( :	x )		Materi	tassium Cyanide S al, only, in ord re than 90 days.	olution and Lab-Pack er to store these wast
•				located above ground located below ground		
	•	)	A tota	ally enclosed treatm	ent facility.	
	(	•	An ele	mentary neutralizat	lon unit.	
	•	)	A fac	llity that discharge	directly to a P	on.
	(	)	Other	(specify)		
Thi	s fac	:111	ty is c	wmed/operated by	HEWLETT-PACKARD	COMPANY
					COMPONENTS, SAN	JOSE SITE
_	4. 1				_	
and	78 1	roca	ted at		350/370 WEST TR	IMBLE ROAD
#md	28 /	LOCA	ted at		350/370 WEST TR SAN JOSE, CA	95131-1008
I as	n bas Fitle	ing 22	my rec	the hazardous waste as a potential hazardous (X) small quantity	on the following Code:  at my facility ord to humans, do to fits:  Of Potassium Common Code Code Code Code Code Code Code Code	95131-1008  checked (X) sections  is insignificant mestic livestock yanide Solution and ial, only
I as	n bas Fitle	ing 22	my rec, Calif	The hazardous waste or wildlife because (X) small quantity () low concentration of the hazardous waste the hazardous waste	on the following Code:  at my facility ord to humans, do of its:  Of Potassium Code in the	95131-1008  checked (X) sections  is insignificant mestic livestock  yanide Solution and ial, only  istics.  is handled, processed ons of another govern-
I as of 1	n bas Fitle ) 66	sing 22	my rec, Calif (a)(1)	The hazardous waste or wildlife because (X) small quantity () low concentrat () physical or citre hazardous waste or disposed of pure	on the following Code:  at my facility of to humans, do of its:     Of Potassium Code:  Lab-Pack Materion; and/or memical character  at my facility uant to regulation	95131-1008  checked (X) sections  is insignificant mestic livestock yanide Solution and ial, only istics. is handled, processed

I am attaching information and drawings as outlined in Attachment A in support of this variance request. For any facilities involving underground tanks, I have attached information on a proposed groundwater monitoring program as sutlimed in Attachment B.

I understand that any warrance from the Hazardous Waste Facility Permit requirements of the Department of Health Services, if granted, does not exempt my firm from any other applicable laws and regulations governing the management of hezardous wastes.

I certify that all information submitted with regards to this variance request is true, accurate and complete.

(Applicant, Typed or Print)  (Signature)	HEWLETT-PACKARD COMPANY ATTN: HAZEL KELLY, 91/BC 350 WEST TRIMBLE ROAD SAN JOSE, CA 95131-1008
(Signature)	(Meiling Address)
HAZARDOUS MATERIAL CONTROL COORDINATOR	
(Title)	•
(408) 263-7500 X240T	
(Telephone Humber)	
AUGUST 26, 1985	N/A
(Date)	Interim Status Document No. If Applicable